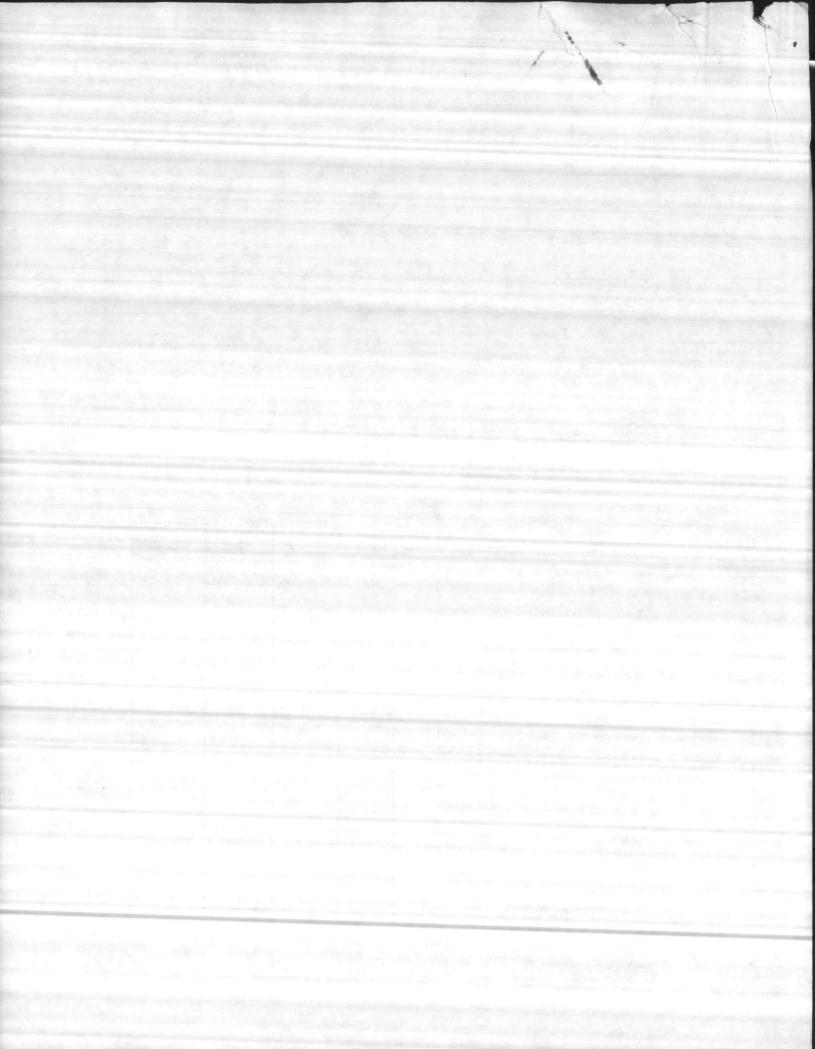
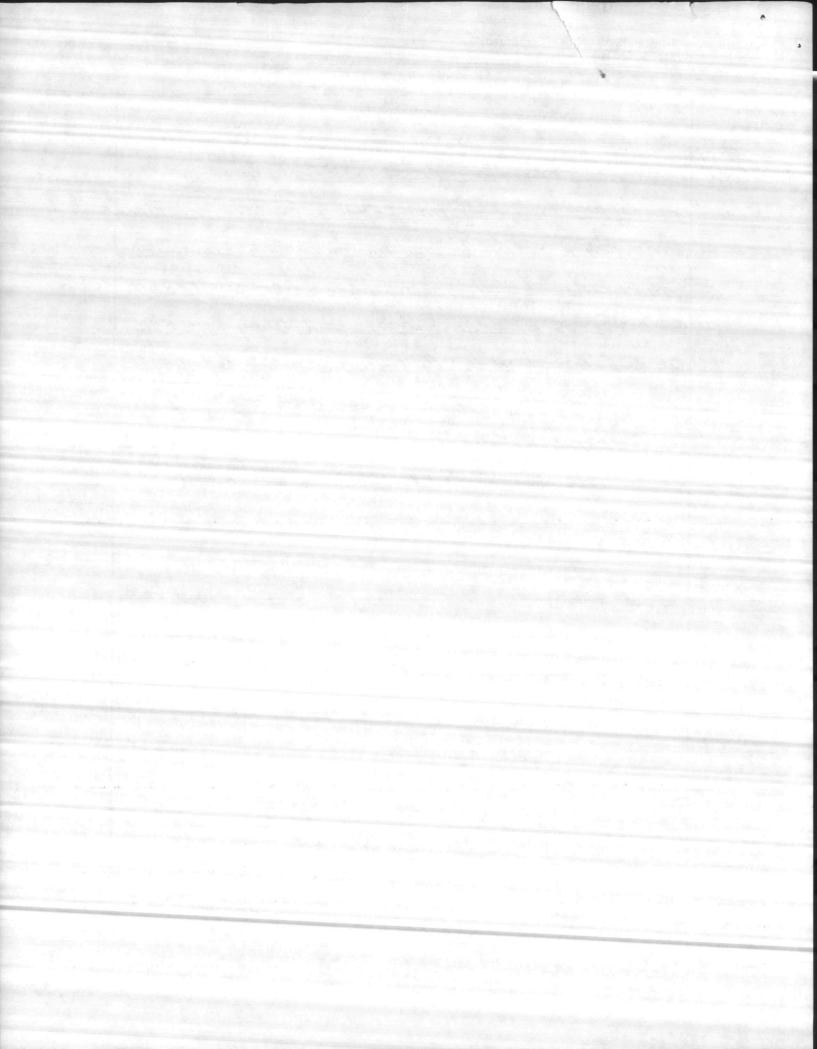
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3RD F157



WORK CENTER	DESCRIPTION	EST. HOURS
7/Consi	LIME AND FERTIZER SPREAD IN OPEN FIELD by	
	ONSLOW FCX AFTER DRUM ChoppING COMPLETED PLACE	
And the second second	STRAW OVER FIRMS BEEM & MULCH IN SOIL. LIME, SEED	
	AND FERTILIZE BOTH FIRING BERM & OP-S. SPREAD	
	GRASS SEEDS IN OPEN AREA. HAUL CLAY SOIL FOR	
	OPS & ASSIST WITH SPREADING SOIL & GRAVEL.	
	USE BALES OF STRANT TO CONTROL POllution	
	IN SumpING RUN CREEK	
	5h\$ 6-10	pales (1985) (1)
		and the second
ega sada manada ma		
an in the second		
	JOB ORDER NO. 3870 FACILITY NO. G-3 & OP-5	



MAINTENANCE COST ESTIMATE WORKSHEET MCBCL 11011 (REV. 1-81)

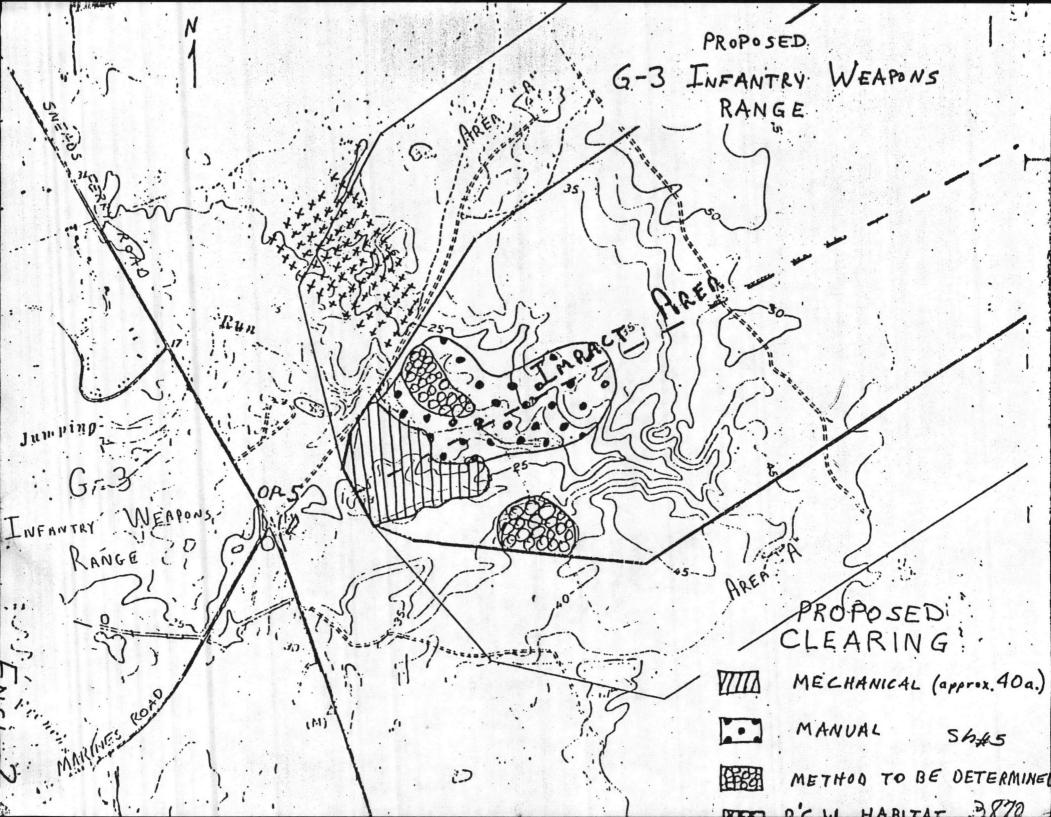
19/84	REQ. NO. LER UNIT BLDG. NO. N. PAC LER ACS FAC G-3 RAGE	CLEAR	Ronge, C	onstruct	MOUND &	CAPANE OF-	WORK CENTER
AMOUNT	MATERIEL REQUIRED		SIZE	UNIT	UNIT COST	TOTAL COST	FOR SUPPLY USE ONLY
14	DOZER W/DRUM Chop			HR.	9.79	137.06	
.16	LOADER, FRONT END			HR	4.76	76.16	
8	GRADER, MOTOR			HX	8. 93	71.44	
16	DOZER (IN BARROW PIT)			Mn	8.93	146.88	
		•				·	<u> </u>
8	LOW DED @ 6.43		Ver	Chis	51.44		<u> </u>
108	MAN HOURS @ WG-8 PER HOUR 14.18	TOTAL	TOTAL MATS	RIEICPU I	p chs	427.54	
206	MAN HOURS @ WG-10 PER HOUR 15.78	DAYS	TOTAL LABOR TOTAL LABOR AND MATERIEL SUIP CAG			4782.12	J.O. SERIAL NO.
3/4	TOTAL MAN HOURS	39.25			· ·	5209.66	MM4-23-3870-23
SLOPE	NOTE: Lt. REDMOND WILL GIVE LOCAT ROAD TO TOP OF MOUND ON THE LE. K CENTERS INVOLVED			alt su	IALE WI	ll be insta	1/20. DATE 3/30/84
71			17	10. /u	sul		3/30/07



LIME AND FERTILIZE this need with controlor After Deum chopped OVER SEED All AREA TO COM-TROIL EROSIONS. Lime Seen & Feetilize MOUND LIME SEED & FERT. 15' by LAND OP-5 CURRECT EROSION PRoblem ADD 8"-10" OF CLAY SOIL FIRING MOUND BASE WITH 4" LIFT OF GRAVEL GRAVEL AREA/ROAD SNEAD FERRY ROAD 5444

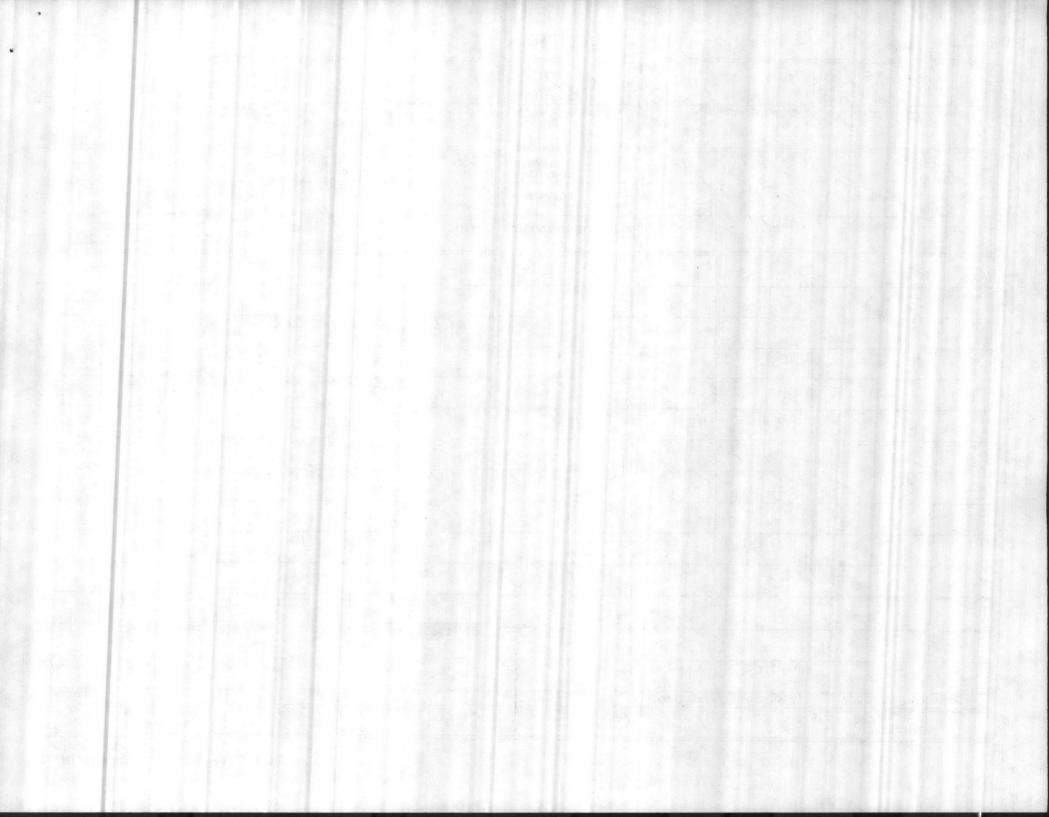
2 470







AMOUNT	FAC LYR FRE ACS G-3 RANGE		SIZE	UNIT	UNIT COST	TOTAL COST	FOR SUPPLY USE ONLY
469	GRAVEL "ABC"	Ades a	Polania Polania	TN	7.10	3329.90	
	SOREM SIZE OPENING PERCENT	PASSING			14.0		
	1/2"	14.1					
	j" 75-9	7			A William		
	1/2" 55-	79		1 1		1	
	#9 35-	55				1.0	- h-
	#10 ABRASION NO MORE SSELOIS 25	-45					
	#40 SOUNDNESS MOMORE 15% LOSS 14	-30					
	#200 4·	-/2	2,3	*			7
< 35	east coast Limestone, INC		Harry		<u> </u>	42.5	
	RT. 1 - BOX 9B	• 10					
	MAPLE HILL, N.C. 28454 Ph#259-	-9114					
			1940 S. A.				
		1			<u> </u>		
52	MAN HOURS @ WG-6 PER HOUR /2.59	TOTAL MAN	TOTAL MATE	RIEL		9 773.91	
80	80 MAN HOURS @ W6-7 PER HOUR /3.42			۹		1882.46	J.O. SERIAL NO.
158 TOTAL MAN HOURS 19.75			TOTAL LABOR AND MATERIEL		11656.37	3870	
REMARKS:				4	10.2		
OTHER WOR	CONSTRUCT ROAD TO TOP OF MOUND	70 SZO	SIGNATURE	PAE	DE OF RE	AO- ASPHALI	DATE DATE
72			M	0. Ti	mer	***	3/30/84



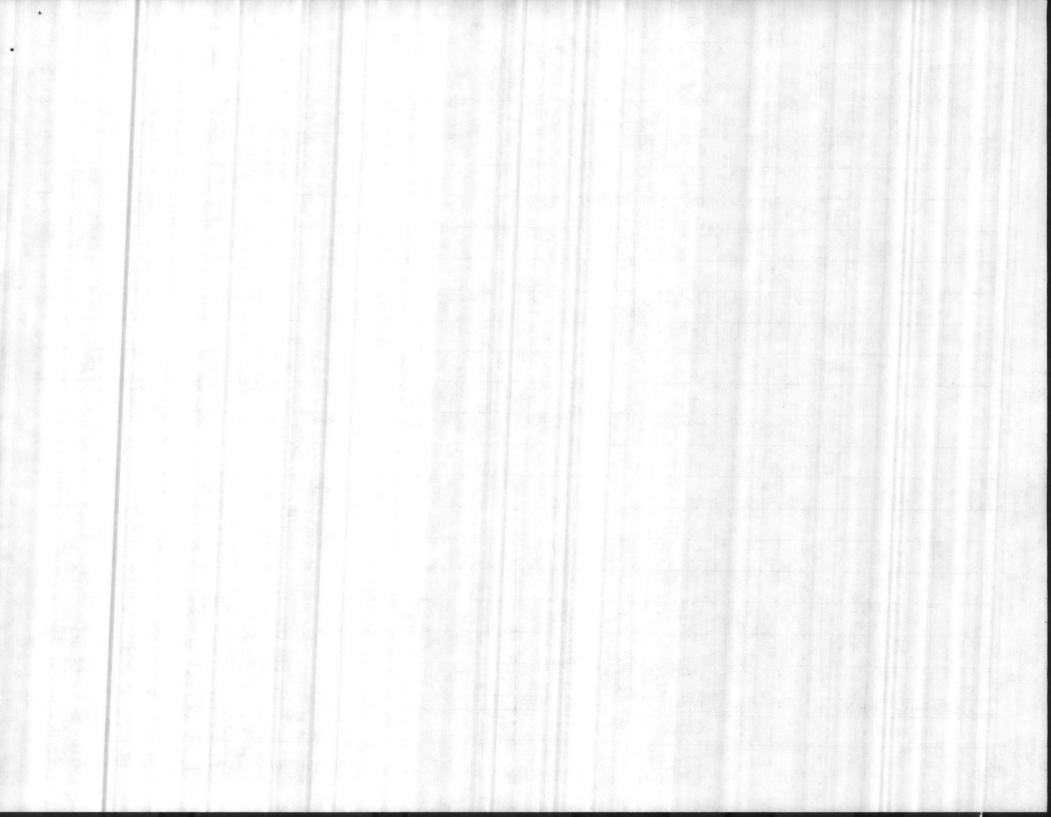
MAINTENANCE COST ESTIMATE WORKSHEET (Cont'd)
MCBCL 11011/1 (REV. 1-81)

3/9/84		3 d		UNIT COST	TOTAL COST	FOR SUPPLY USE ONLY
AMOUNT	MATERIEL REQUIRED	SIZE	UNIT	UNIT COST	IUIALCOSI	TON GOTTET OGE ONE!
122	LIME AGRICULTURE	SOLL	b6.	1.50	183.00	
	(MATERIAL TO BE SPEEMDE by homo) ONSLOW FCX, JACKSONVIlle, N.C.	100				
215	MXZIW FCB, SHERSDNOW WILL			Aug v		
		1				
		SOLL	6	16.00	224.00	
14	CMATERIAL TO BE SPREAD by hANDO ONSLOW FCX, JACKSONVIlle, N.C.	SOLP	ьв	76.00	224.00	
5 /5	BNSZOW FCX, SAEKSBOOTHE, N.C.		;5 2			
				1, ,		
12	BERMUNDA GRASS SEED (HULLED)	5026	20	137.50	1782.50	1
3 B (4)	ONSLOW FCX, JACKSONVILLE, N.C.	4 4 56				
3/3	ONSERVE CENT STORES OF THE CONTRACTOR	11.				
				3.3		
31	FERTILIZE 88-8 8720-00-090-0001	SOLL	b 6	3.21	99.51	
		4.50	Mary.			s & sailtea
2/5	Whent steam	40Lb	bALE	2.00	430.00	
	ONSLOW FCX, JACKSONVILLE, N.C.					
						100 mg
				5		J.O. SERIAL NO.

Sheet 2 of 3

20/0

SHEET_Z



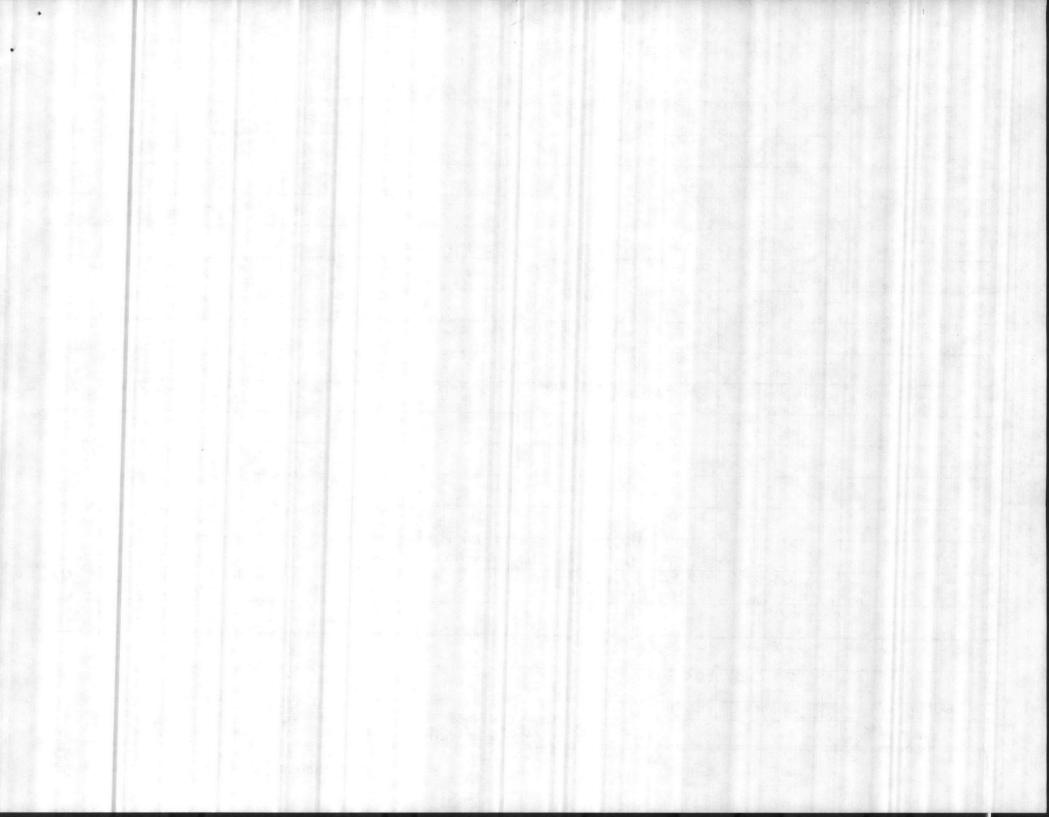
MAINTENANCE COST ESTIMATE WORKSHEET (Cont'd)
MCBCL 11011/1 (REV. 1-81)

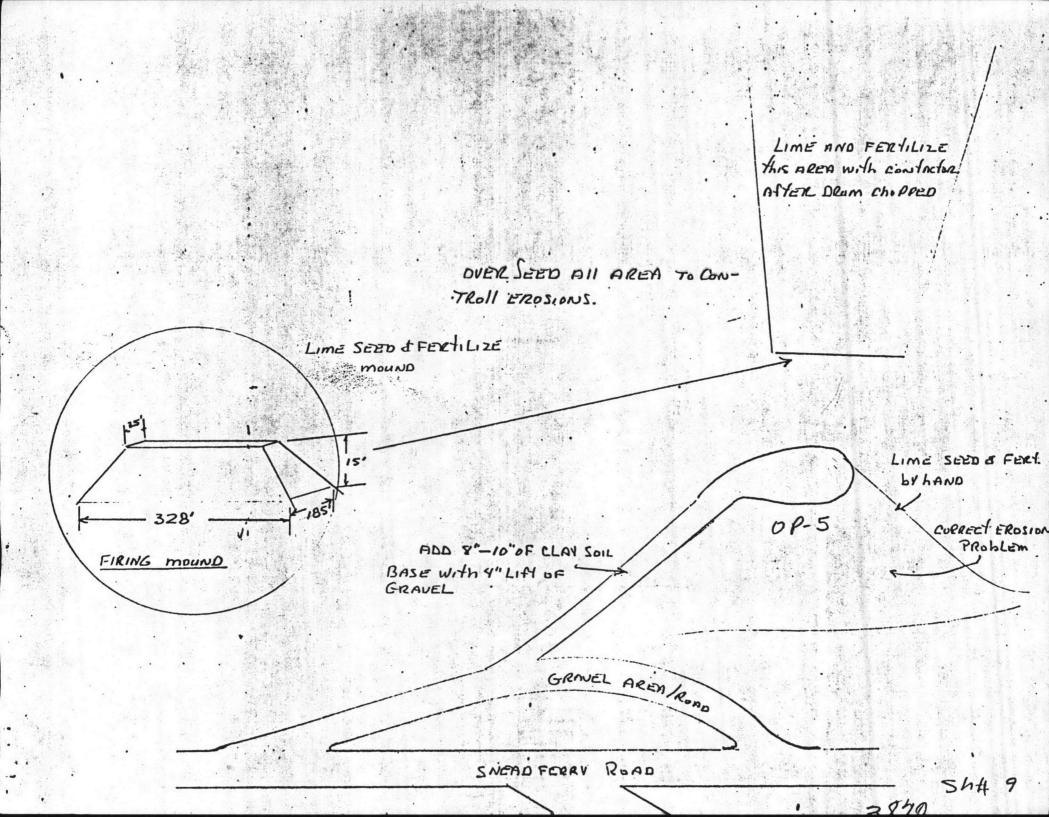
DATE /84	FAC LIK ACS FAC G-3 Ronge NATURE OF WORK	& line	of feel.			WORK CENTER
AMOUNT	MATERIEL REQUIRED	SIZE	UNIT	UNIT COST	TOTAL COST	FOR SUPPLY USE ONLY
80	LIME AGRICULTURE		TN	28.00	2240	
					W. 1 3.	
			•			
10	FERTILIZE 8-8-8		TH	148.00	1480	
	Above material is To be speno by)				
	ONSLOW FCX AT ONE APPLICATION.				* 4	
5%	ONSLOW FCX, JACKSONVIlle, N.C.					
		h h				
						1-46
26	FIELD TRACTOR WISPREADER TO LIME &	equil	cho	53.56		
	FERTILIZER MOUNT & OP-5 @ 2.06				in the second	4
		1. (1) (1. (1) (2. (1)				
8	CAREGO TRUCK @ 2.23	NEH	chs	17.84		
80	Dump Fruck @ 3.24	VEH	chc	259.20	i i i i i i i i i i i i i i i i i i i	
		14				
		, 1 To	6	1004		
 -		d.8 - 2				J.O. SERIAL NO.

3870

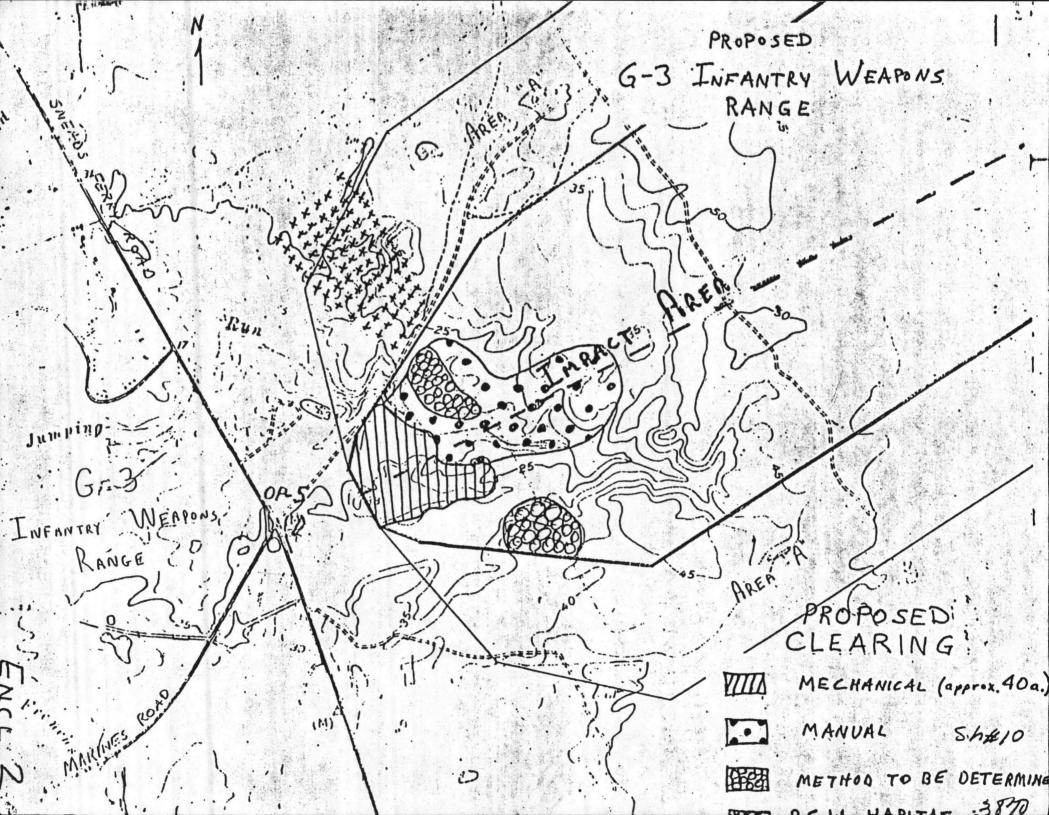
Sheet 3 of 3

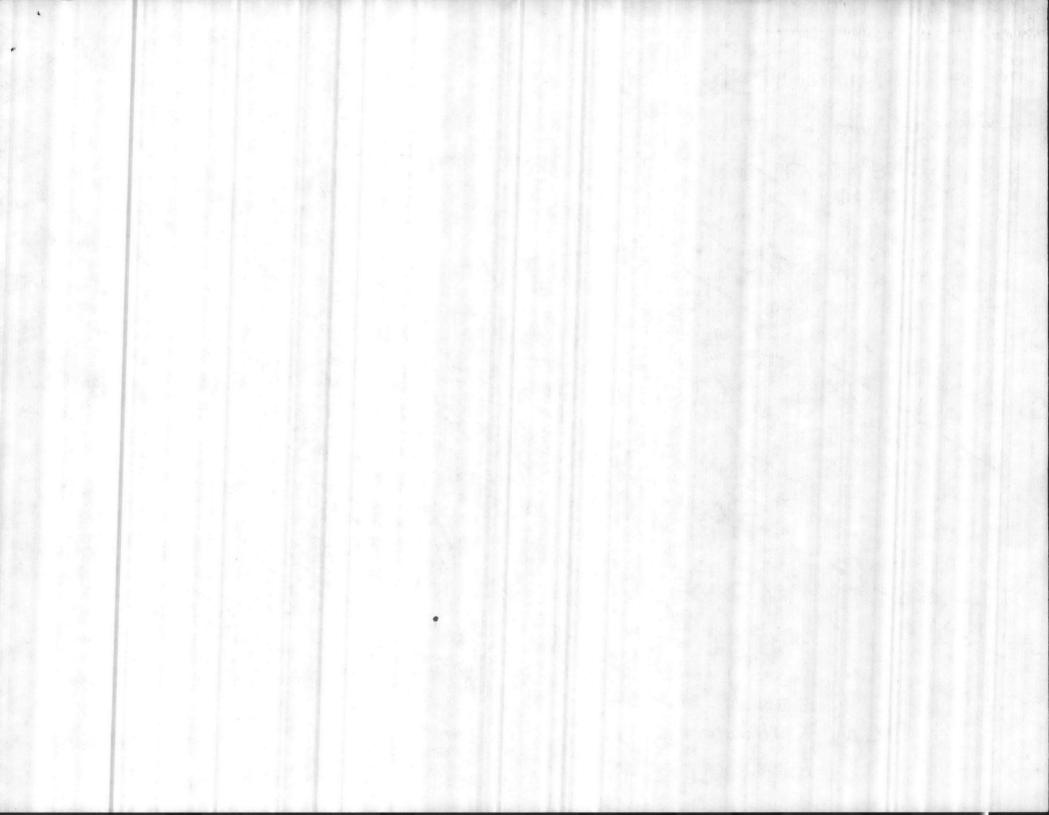
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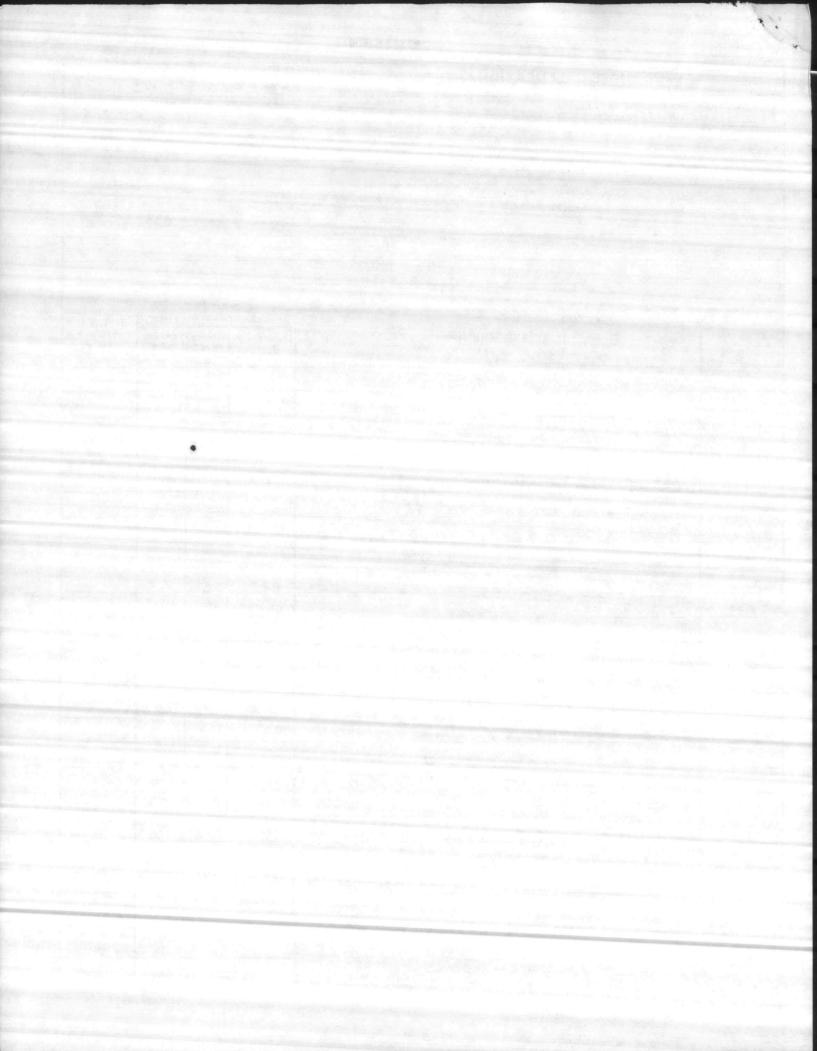




	N: This form should be used 1. CRAFT PHASE NO. 2. JOB PHASE NO. 1. JOB PHA	OB IDENTITY N		9 MA	1.1984
5. WORK CENTER	NO. AND TITLE				
. JOB PHASE DES	CRIPTION			Fy	
Com.	Construet Hange & repair	08-5			
(April 1)	Correction of the contract of				11.15
	· programme and the second		i day (- H
in the			Course and S		等最 第
Editorial		9. EPS ES	I and a second		NON-EPS
REFERENCE 7.	Clear are 8.	HOURS	OCCUR-	TIME	TIME
35-L	Seed and Sperox 40 acres Wills heater	160	b.)L.O	10.
RT-42	med has spine 40 dees with pieces	160		76.0	- 11
K1-42	Land better & colored		X950		
	Lime & feetiling by Contractor)		•		44.27
Service Control	OP-5 & Berm By hand	15.0	1	082	147
27-	Sud ava (021'x2=842'x45= 37,8905F	.,023	105.44	2.5	
XT-19	F. Berm) 67, 542 = 105, 932 SF = 1000 SF= 105, 44 100	***			
kar .		10,70	2 1,50	12 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
27-	Festilize & lime op- 5 & Bern	. 023	20.50	4.9	14.3
RT+9	105. 44 Occ X2 = 210.88 occ		-27		
	And the second s		v fe		- 1
Sit	place strawon fining Bum				16
	The second secon	- 2.0		100	14
DWA-2.	Hand claytype seil of 5 3 mes	.55	81	44.6	
	405 CY=5- 81 longs				11.
			Arra Paris	11/4	
16-F	assist with exceeding gravel 176 Ly hand	2.9	1	2.9	Trans.
WT-34	247 Cylx .01= 2.47 Cg	2	14	*	
pw4-5	Am H. Lead seed Julilyat line	.11	2.23	8.4	*
1767.4	7633 Lb=100 = 76.33	# **		79. 3	
lar	Install sedimentation Control pacilities				24
67,5425	F ÷ 1000 = 67.55	TOTALS Estimate	(Craft & ed Time)	80	40
e - 90 24	19/1000 SP X 67.55 rec = 6079 Lb : 50 - 122 By	TOTAL (EP.	S from No	omograph)	1/2
Idy 23	16 phosos x 67.55 rec = 1554 Lb - 50 . 31 Ray	TOTAL	OR BUAS	E TIME	118
Option of the second		TOTAL J	OB FINAS	L I HVIE	158

DD FORM 2167 SN 0102-LF-002-1670
Contract week SOR & L = 20000 + 2000 = 10 70 ms

SHEET OF





UNITED STATES MARINE CORPS Marine Corps Base Camp Lejeune, North Carolina 28542

FAC/REA/nh 6280/1 9 MAR BUL

Commanding General START WORK 4.5.84

From:

To:

Distribution List

Subi:

Proposed G-3 Infantry Weapons Range; review of environmental considerations and completion schedule by Environmental Impact Review Board

Ref:

- (a) BO 11000.1A
- (b) BO 11015.2G
- Liaison mtg btwn lstLt REDMOND, Range Control: (c) Mr. Cone, BMain Operations; and Maj BARNETSON, AC/S Fac
- AC/S Trng ltr RCTL/HBR/kes over 11000 dtd 11 Jan 84 (1)
 - Site map, proposed clearing
- Request that enclosure (1) be reviewed in accordance with references (a) and (b). Enclosure (2) represents the area and proposed clearing techniques. Concurrent with this review, project estimating and planning will proceed. Target date for construction to begin is 5 April, pending the outcome of the Board meeting. Timing for this project is critical in that the G-10 Impact Area must be closed during the EOD sweep and until clearing is complete. All work discussed during reference (c) must be complete by 26 April 1984.
- A meeting of the subject Board has been scheduled at 0930 on Wednesday, 21 March 1984 in the Conference Room, Building 1 to discuss this proposal.
- 3. Points of contact for this review are Maj Barnetson and Mr. Alexander, ext 3034/3035, for project planning and environmental review, respectively.

W. ELSTON By direction

DISTRIBUTION:

(Members)

Rep, 2d MarDiv (G-4)

Rep, 2d FSSG (G-4)

Rep, 6th MAB (G-4)

Rep, MCAS(H), NR (S-4)

TFACO

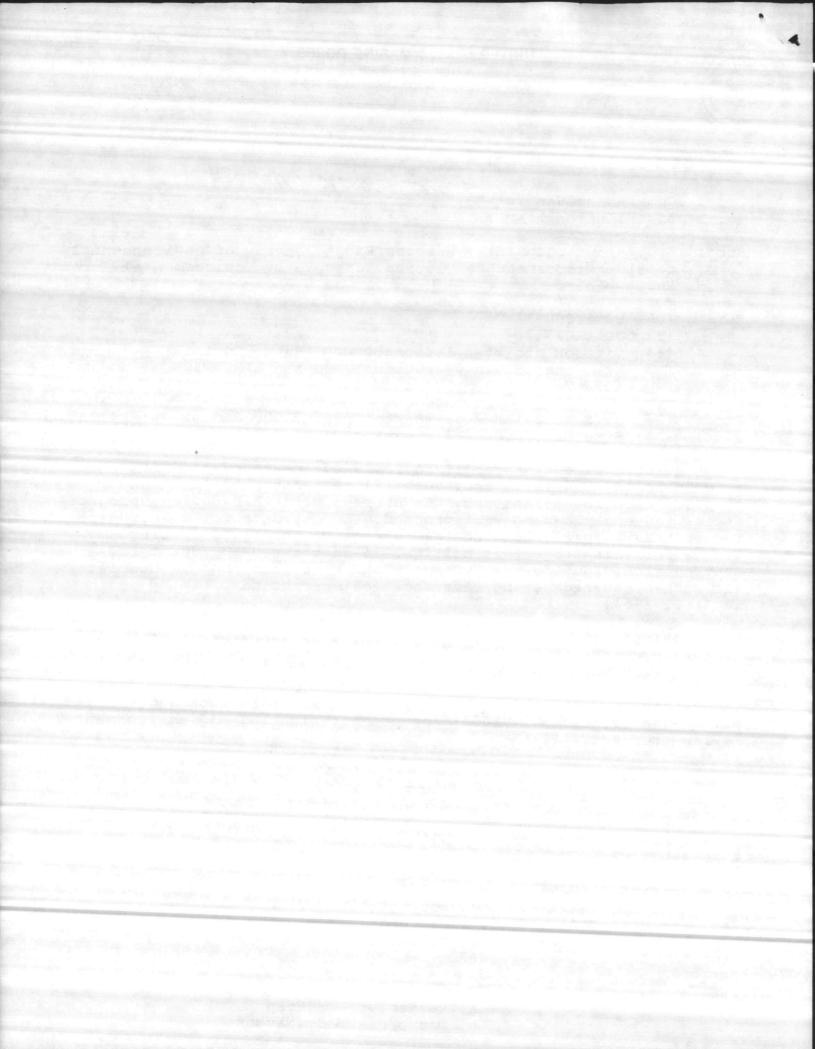
BMO

PWO

(Advisors) Dir, NREA SupvEcologist BWildlifeMgr **BGameProtector** SAFD

SJA DPDO

Ch, VetMedSvc, NavHosp Ch, Occup/PrevMed, NavHosp





UNITED STATES MARINE CORPS MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA 28542

RCTL/HBR/kes 11000 11 Jan 84

From: Range Control Officer

To: Assistant Chief of Staff, Facilities /

Via: Assistant Chief of Staff, Training 12 JANST

Subj: Infantry Weapons Range G-3; request for establishment of

Ref: (a) MCO P3570.1A/AR 385-63 Encl: (1) Map showing Proposed Range

2) Preliminary Environmental Assessment (PEA)

(3) Description of Proposed Range

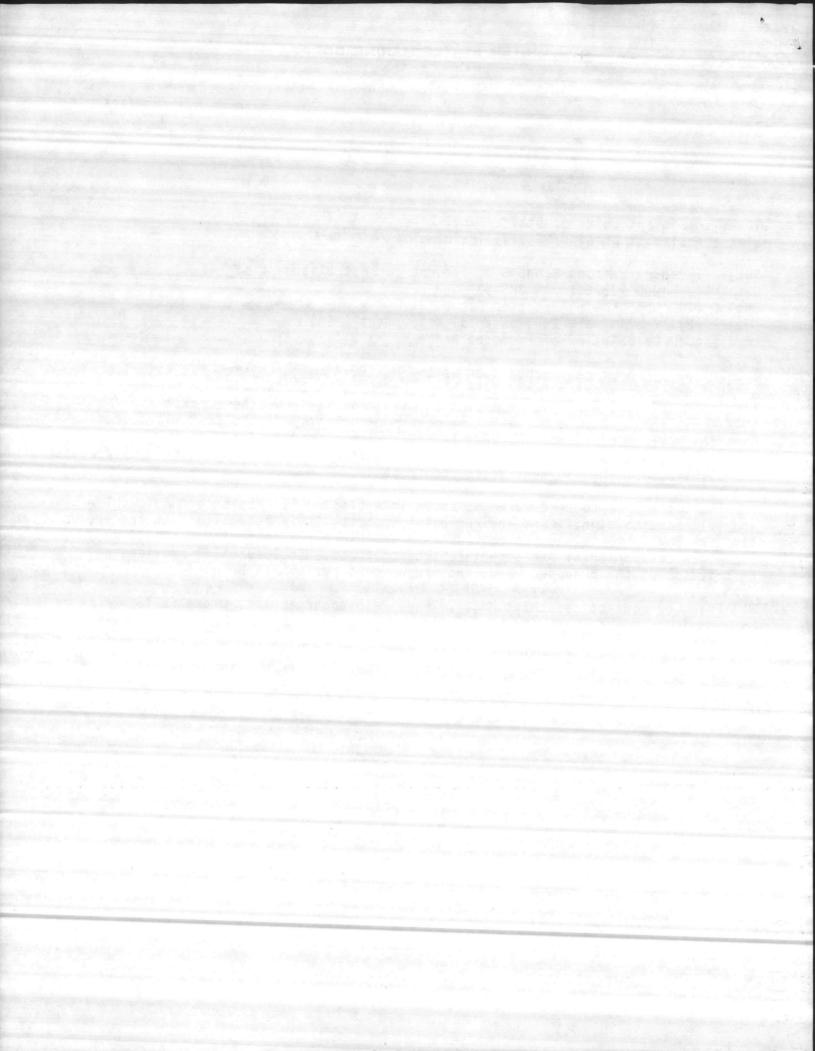
1. Introduction of new weapon such as the MK-19, 40mm gun system has established a requirement for Marine Corps Base, Camp Lejeune, North Carolina to provide a live fire training range for use of this weapon system and others, such as the SMAW and Dragon. At the current time no range currently exists that will accomodate the MK-19 Gun System. Because there is also a need for an Infantry Weapons Range on the east side of New River, it is requested the Range 6-3 (Infantry Weapons Range) be established to meet these requirements.

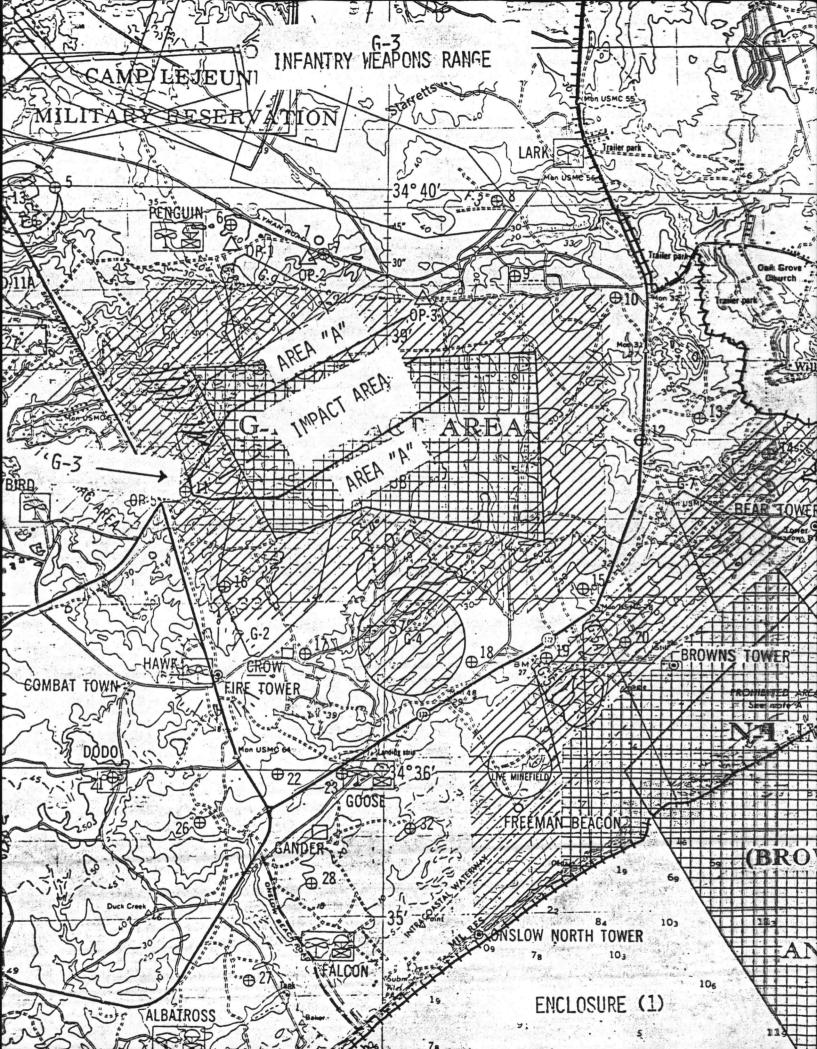
2. The total area to be cleared is shown in enclosure (1) has no economic value and will have no significant environmental impact. It is requested that the Preliminary Environmental Assessment (PEA) in enclosure (2) be reviewed and if necessary, an Environmental Assessment (EA) be prepared. Enclosure (3) provides a description of the proposed range and the weapons systems to be used.

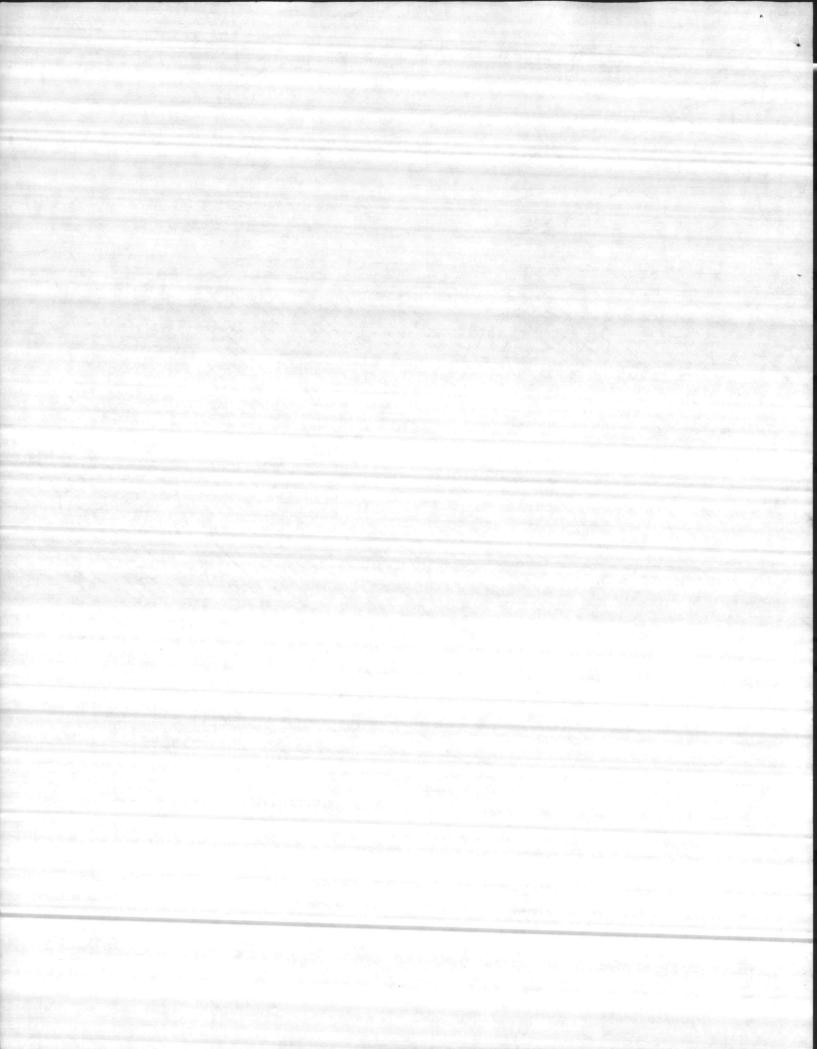
Point of contact is: MSgt Moses, Range Maintenance, Chief, phone 5211.

3870

ENCL 1







PRELIMINARY ENVIRONMENTAL ASSESSMENT FOR

G-3 INFANTRY WEAPONS RANGE

Enclosures. Map showing proposed range.

Purpose and Need 2.

- The purpose of this proposed action is to provide the Marine Corps Base (MCB), Camp Lejeune, North Carolina with a multi-purpose "Infantry Weapons Range". This range will be used
- Teach grenade launcher firing techniques and to prepare grenade combat situations.
- Teach the skills needed to defeat armored vehicles with light antiarmor weapons.
- Teach the techniques of firing flash weapons point and area targets.
- Teach mortar crews and forward observers maintain technical proficiency in mortar firing.
- (5) Teach the techniques of engaging targets with medium and heavy antiarmor weapons.
- Teach firing at targets comparable to battlefield ranges developing speed in target engagements, and developing confidence in individual ability.

Project Description

This project generally consists of the following:

(a) Removal of brush and trees. EOD 0552

LT Redmond

(b) Construction of a (firing berm.

Landscaping of the range to Vestablish 3920 (c) for erosion control and to facilitate grasses maintenance.

Site Selection. The site is located on Enclosure (1). The location is currently part of the sur face danger area for Range G-10 and will utilize some of the existing targets in the G-10 Impact Area. The site was selected because the terrain allows for visability of targets at ranges up to 2500 meters.

Range Characteristics

Firing Line Width - 100 meters

Target Area Width - 350 meters at 200 meters from

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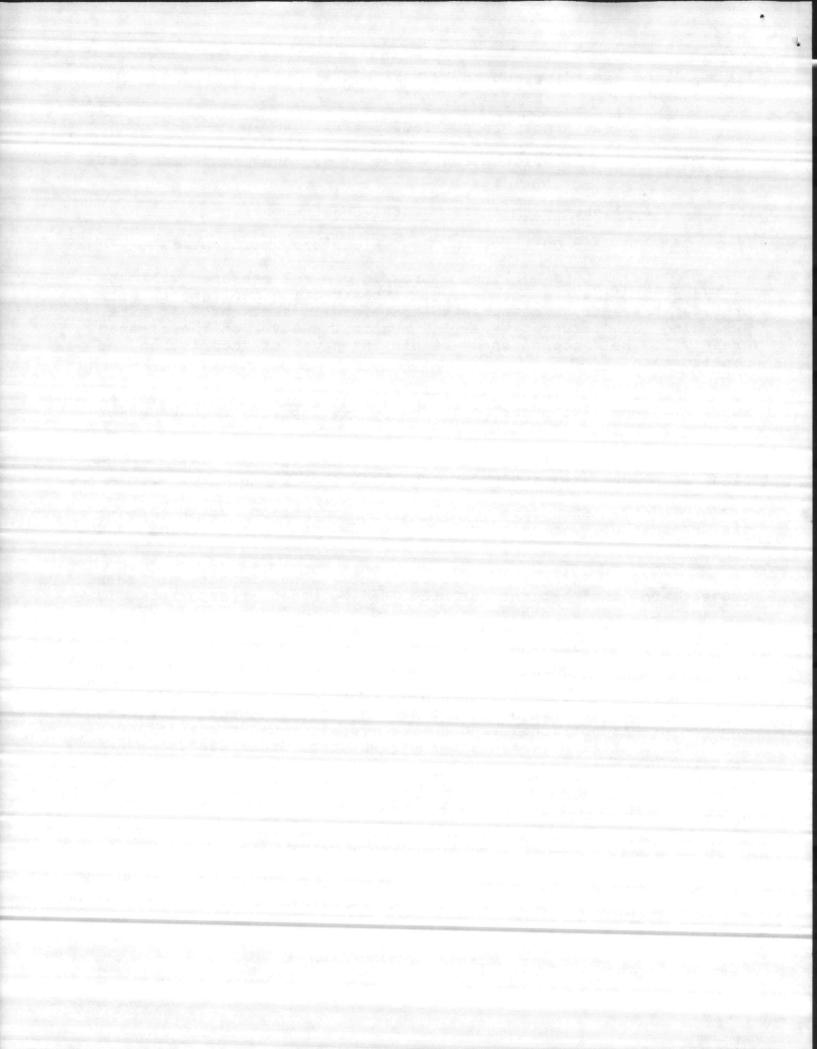
firing line expanding out to 1200 meters at 960 meters from the firing line.

Minimum Range Depth - 2500 meters

Target Configuration - Static personnel and material targets.

e. Compliance With Environmental Requirements

- (1) Air Quality: No emmissions are anticipated.
- (2) Land Quality: Erosion control measures will be included in the project design. Construction management will provide preventive measures to contain all sediment on site. Reseeding of disturbed areas and vegetative cover on the cleared area will be accomplished within 30 days of completion of construction.
- (3) Clean Water Act: No discharge of wastes to surface waters will occur during range development or subsequent use.
- (4) National Historic Preservation Act: No significant cultural resources are located on the project site.
- (5) Executive Order 11990 Protection of Wetlands: disturbance of wetlands will be avoided during clearing and earthmoving.
- (6) Endangered Species Act: The impact of this project on the habitat of the Red-Cockaded Woodpecker is negligible. This statement is based on the determination that the habitat of this species does not occur within the area to be affected by clearing and earthwork.
- f. <u>Conclusion</u>. The development for G-3 Infantry Weapons Range will not result in significant environmental impact provided the measures described herein are followed. further, the project is not considered controversial, thus, preparation of an Environmental Assessment per Marine Corps Order 6280.5 is not required.



RANGE DESCRIPTION

- 1. RANGE G-3
- 2. LOCATION GS 8934
- 3. DESCRIPTION
 - a. Infantry Weapons Range
 - b. Area and point targets at varying ranges from 150 to 3000 meters.

4. AUTHORIZED FIRING

- a. Weapons All infantry weapons except Cal. 50 machine gun 106mm recoilless rifle, and hand grenade.
 - b. Ammunition Service
- 5. RANGE LIMITS
 - a. Right Flank Coordinates

Azimuth 91 °G

b. Left Flank Coordinates

Azimuth 29 OG

6. COMMUNICATIONS

- a. Dial telephone (1431) available at OP-5.
- b. See Section IV.
- c. Dual communications required.
- 7. KNOWN INTERFERENCE. None
- 8. SAFETY EQUIPMENT. To be determined.

Enclosure (3)

RANGE DESCRIPTION

- 1. RANGE G-3
- Z. LOCATION GS 8934
- 3. DESCRIPTION
 - a. Infantry Weapons Range
 - b. Area and point targets at varying ranges from 150 to 3000 meters.
- 4. AUTHORIZED FIRING
- .. a. Weapons All infantry weapons except Cal. 50 machine gun 106mm recoilless rifle, and hand grenade.
 - b. Ammunition Service
- S. RANGE LIMITS
 - a. Right Flank Coordinates

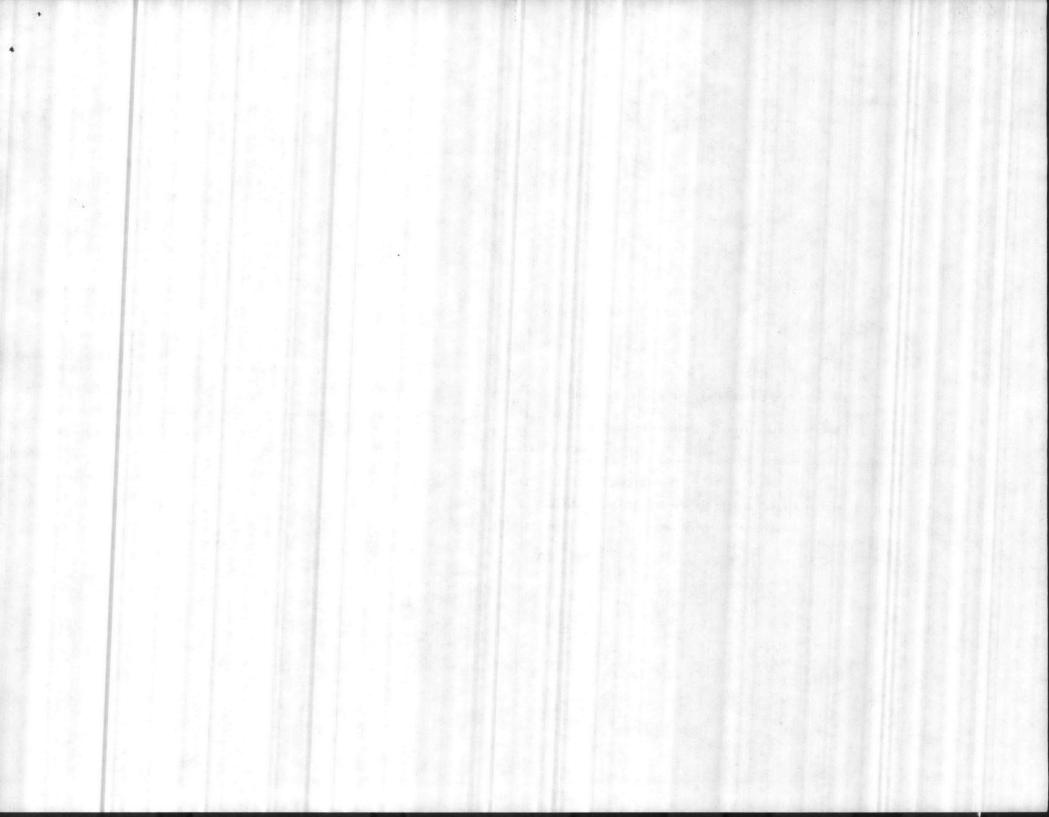
Azimuth 91 05

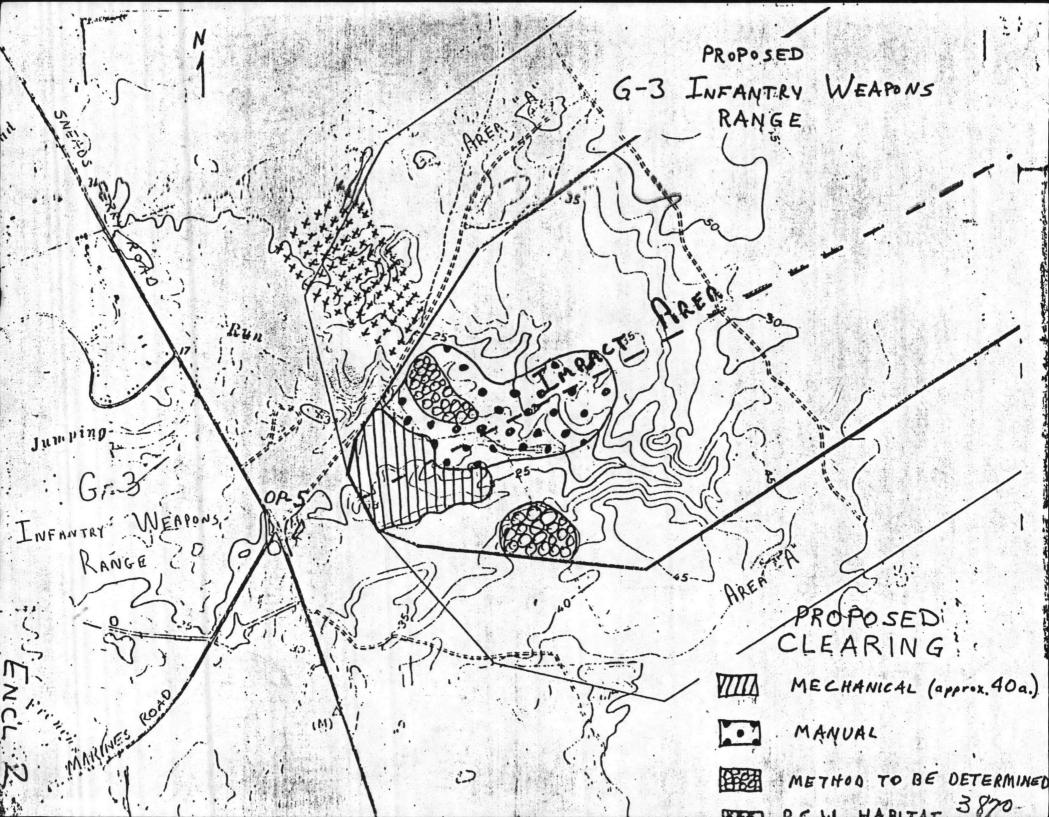
b. Left Flank Coordinates

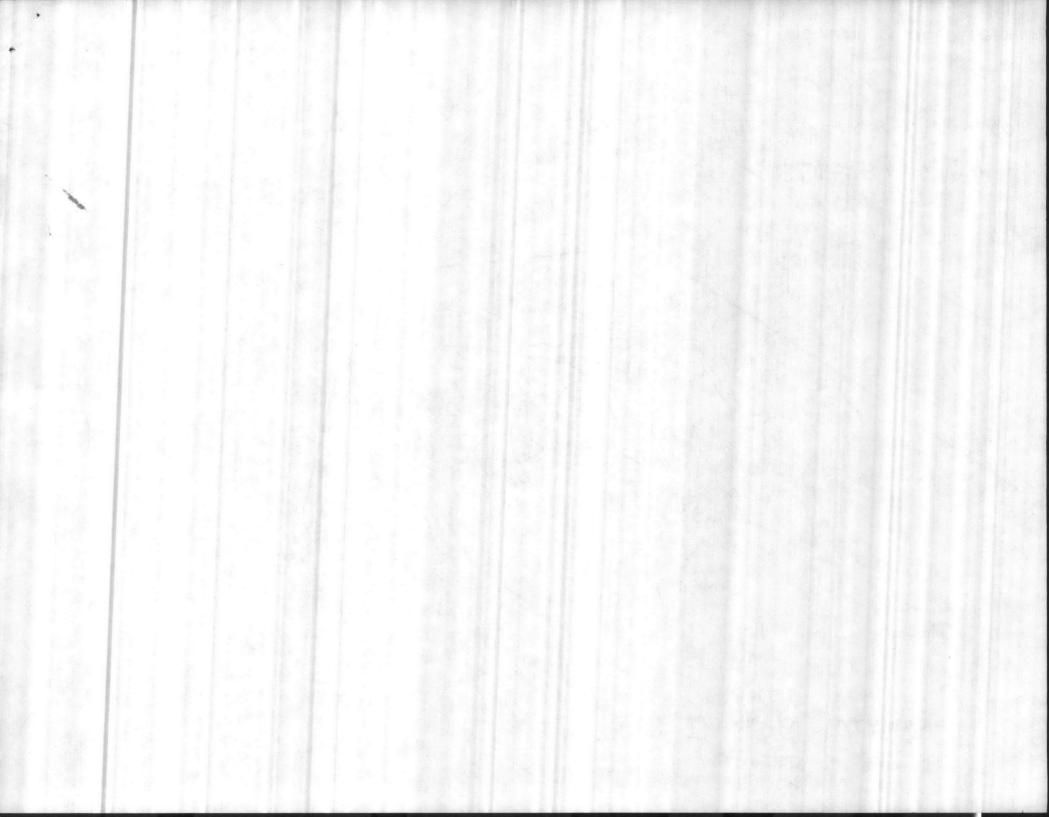
Azimuth 29 °C

- 6. COMMUNICATIONS
 - a. Dial telephone (1431) available at OP-5.
 - b. See Section IV.
 - c. Dual communications required.
- 7. KHOAN INTERFERENCE. None
- 8. SAFETY EQUIPPENT. To be determined.

- 9. RANGE PERSONNEL Officer in charge of firing
- 10. MEDICAL. Medical corpsman and military safety vehicle with driver.
- 11. SPECIAL INSTRUCTIONS
- a. Insure that the winimum ranges for weapons comply with the safety criteria for the system.
- b. No down-range movement is permitted unless accompanied by EOD personnel.
 - c. Report all duds to the Range Control Duty Officer (3064).







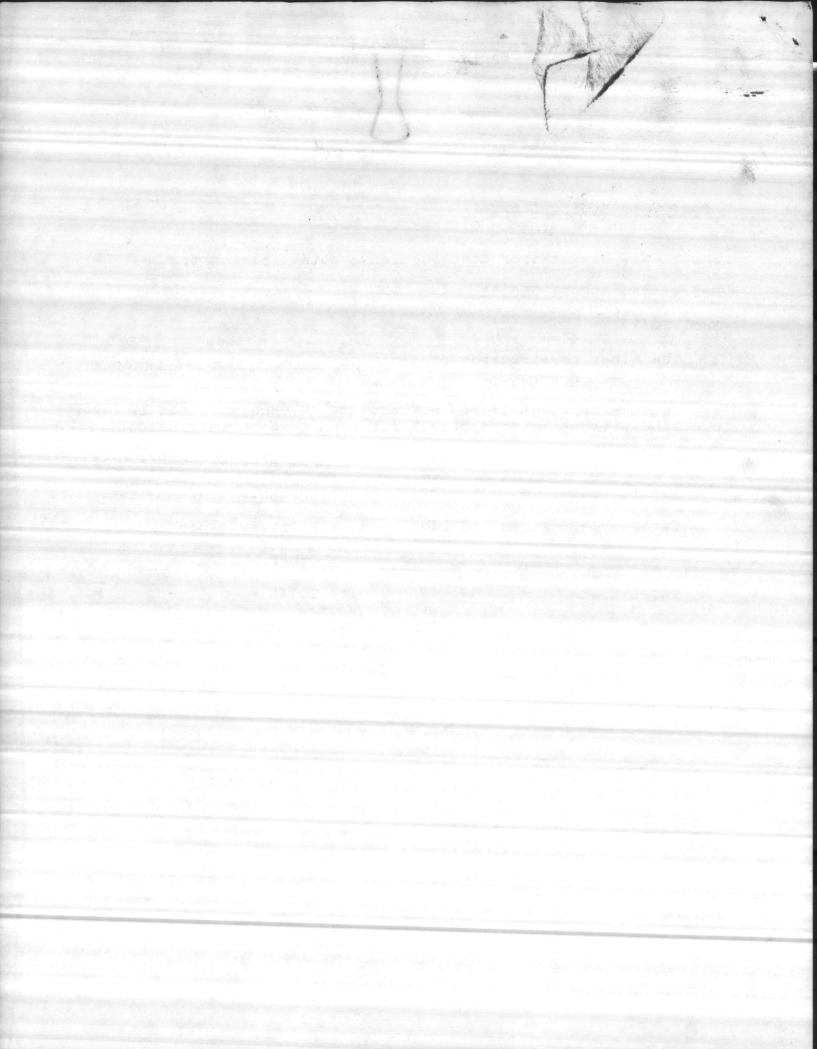
UNITED STATES MARINE CORPS Marine Corps Base Camp Lejeune, North Carolina 28542

Commanding Genera

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FAC/JGF/nh 11014 8 APR 1984

To: Base Maintenance Office	r
Subj: New Work (Minor Constru	ction); authorization for
Ref: (a) MCO P11000.5E	
Encl: (1)	
	ject <u>for work at the G-3 range</u>
	icated below, and will not be
exceeded without prior approva	l for amendment by this Headquarters
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NATURAL RESOURCES AND ENVIRONMENTAL AFFAIRS Marine Corps Base Camp Lejeune, North Carolina 28542

Date

From: Director

To:

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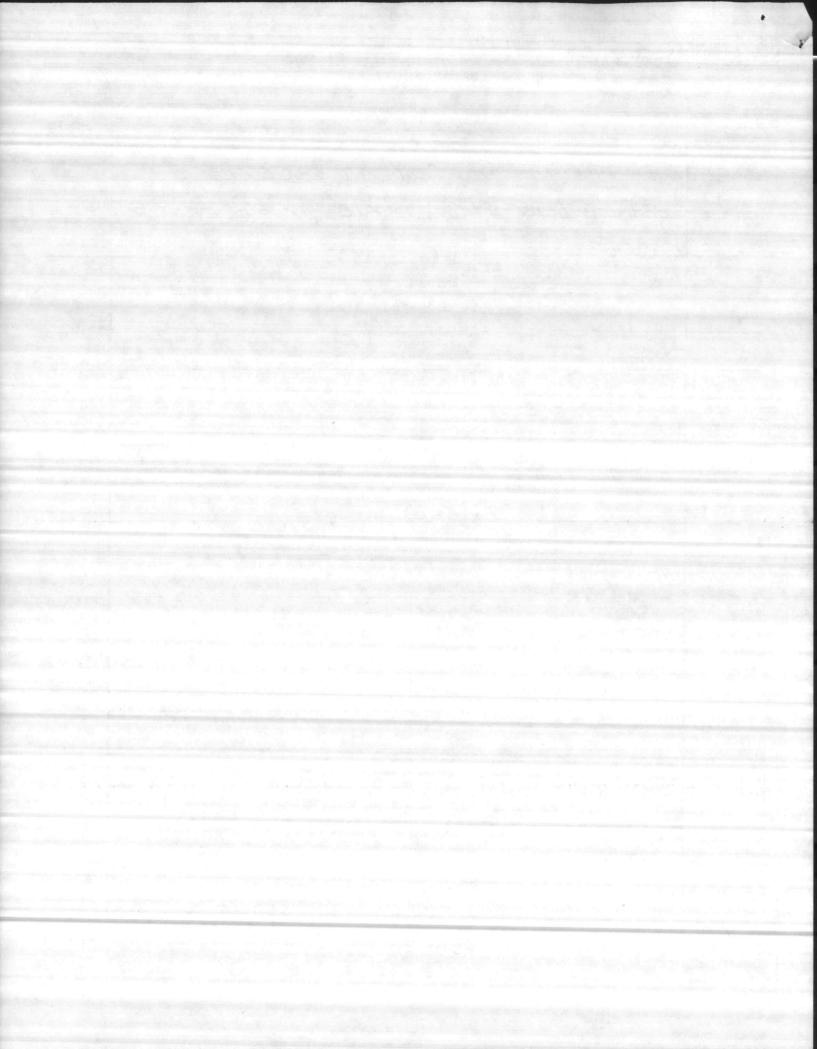


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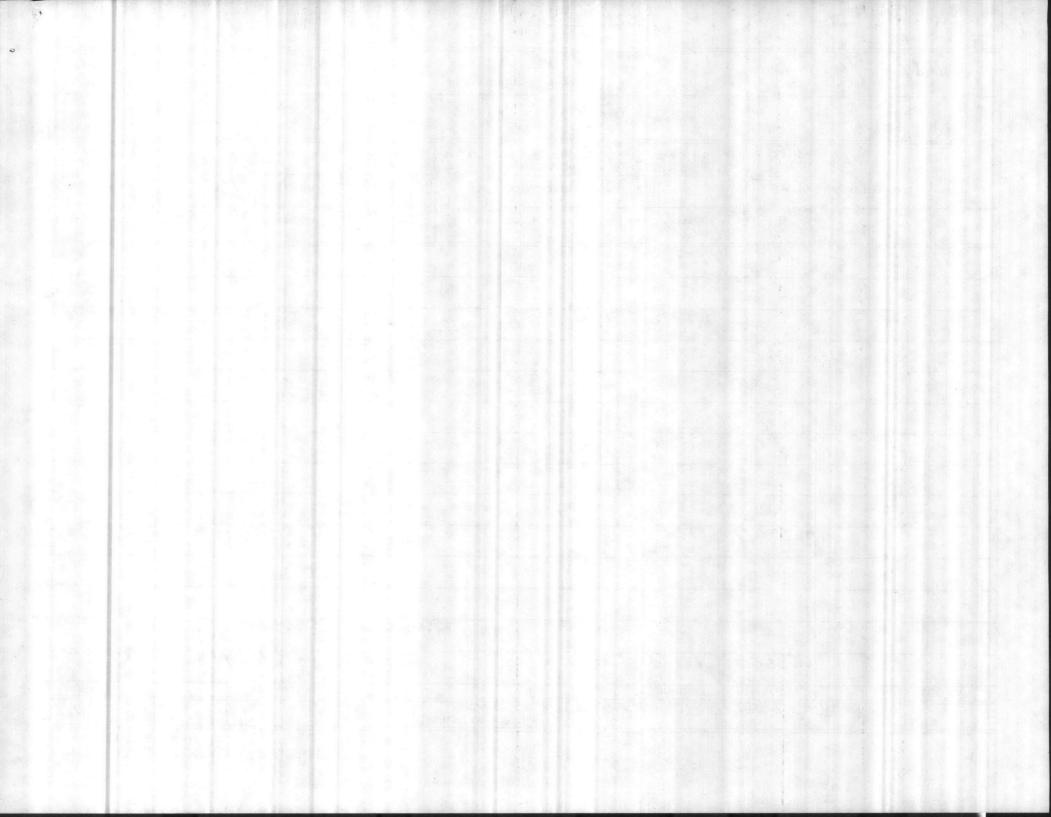
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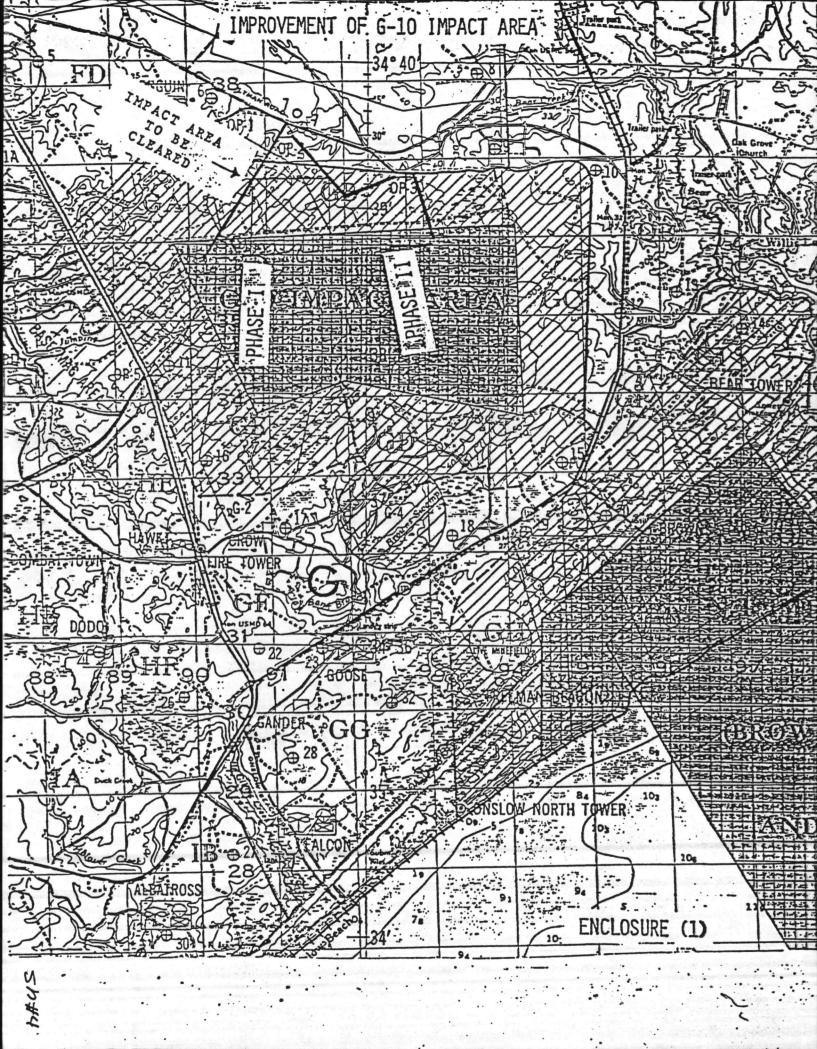


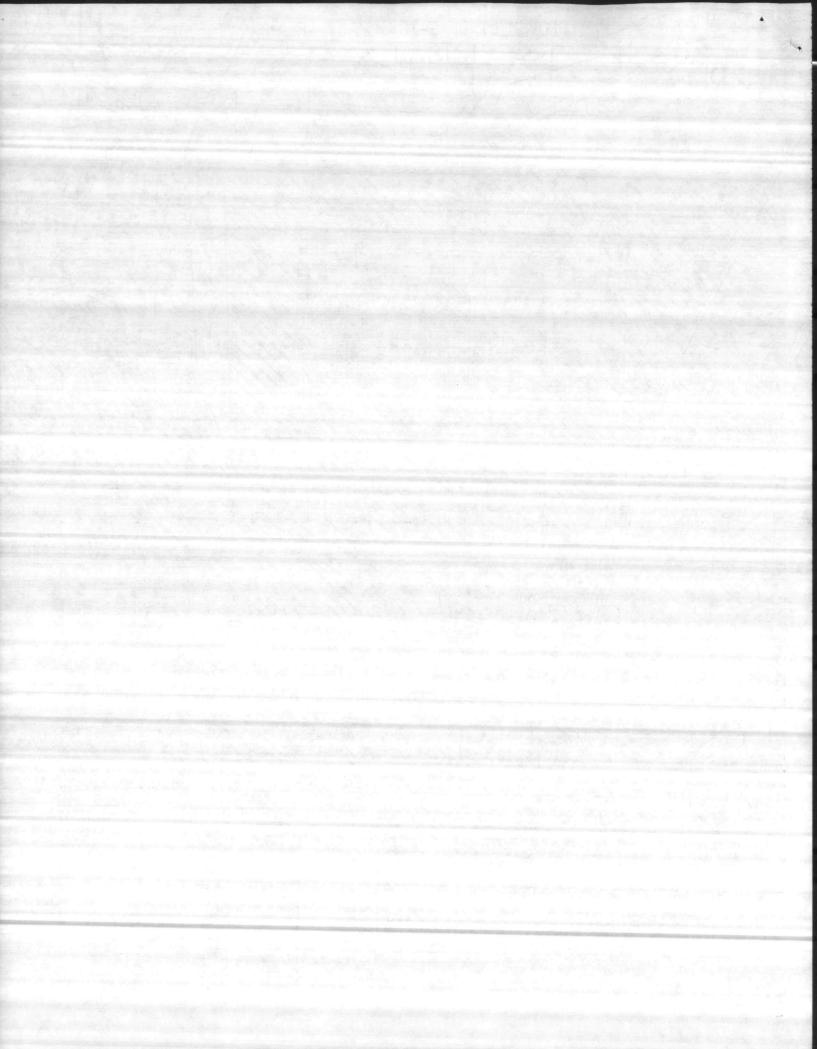
MAINTENANCE COST ESTIMATE WORKSHEET MCBCL 11011 (REV. 1-81)

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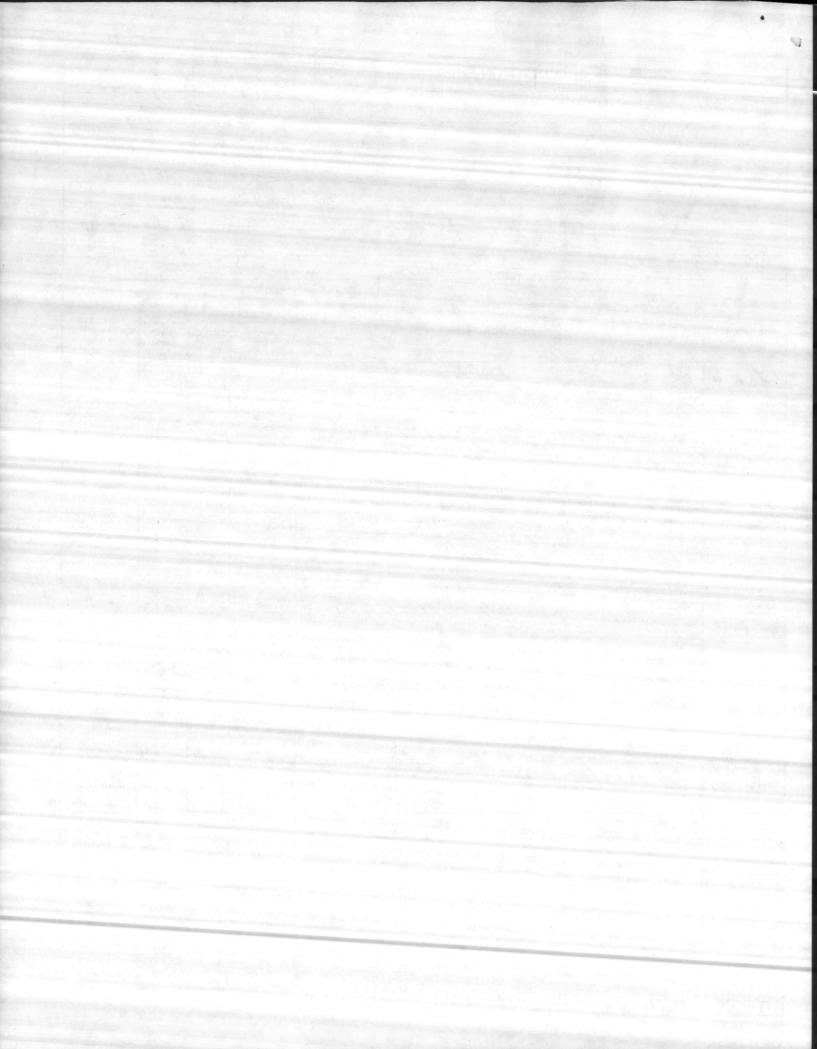
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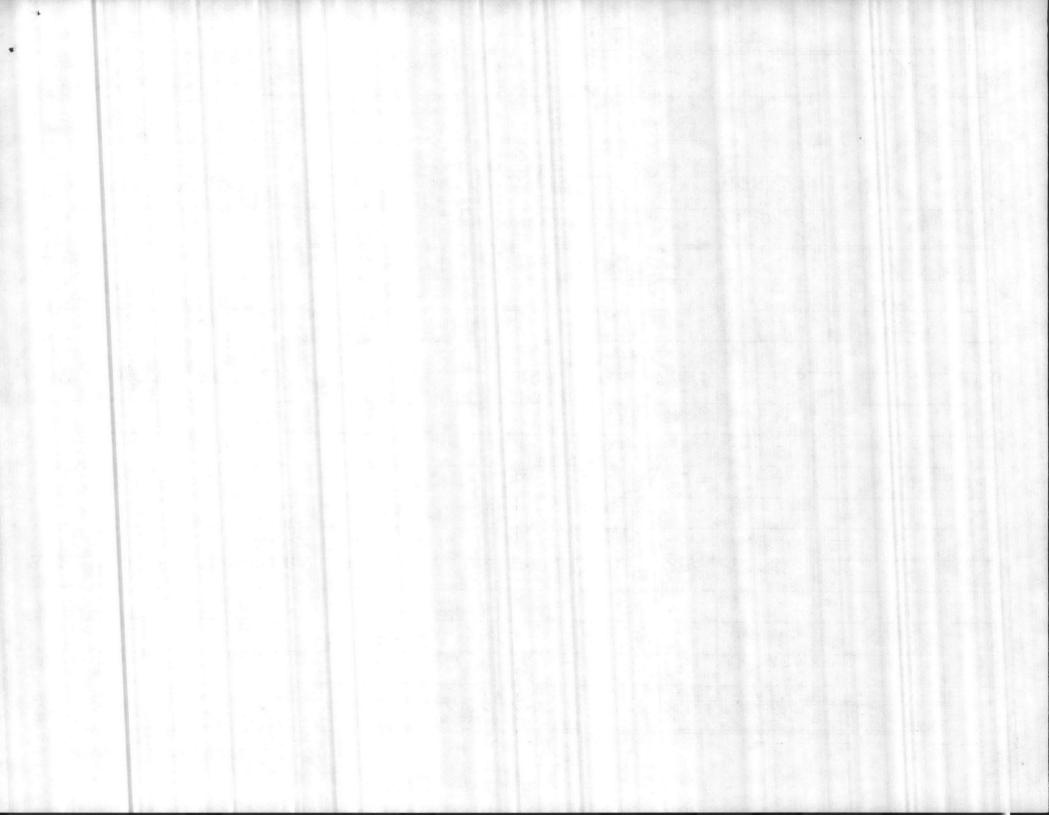
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MAINTENANCE COST ESTIMATE WORKSHEET MCBCL 11011 (REV. 1-81)

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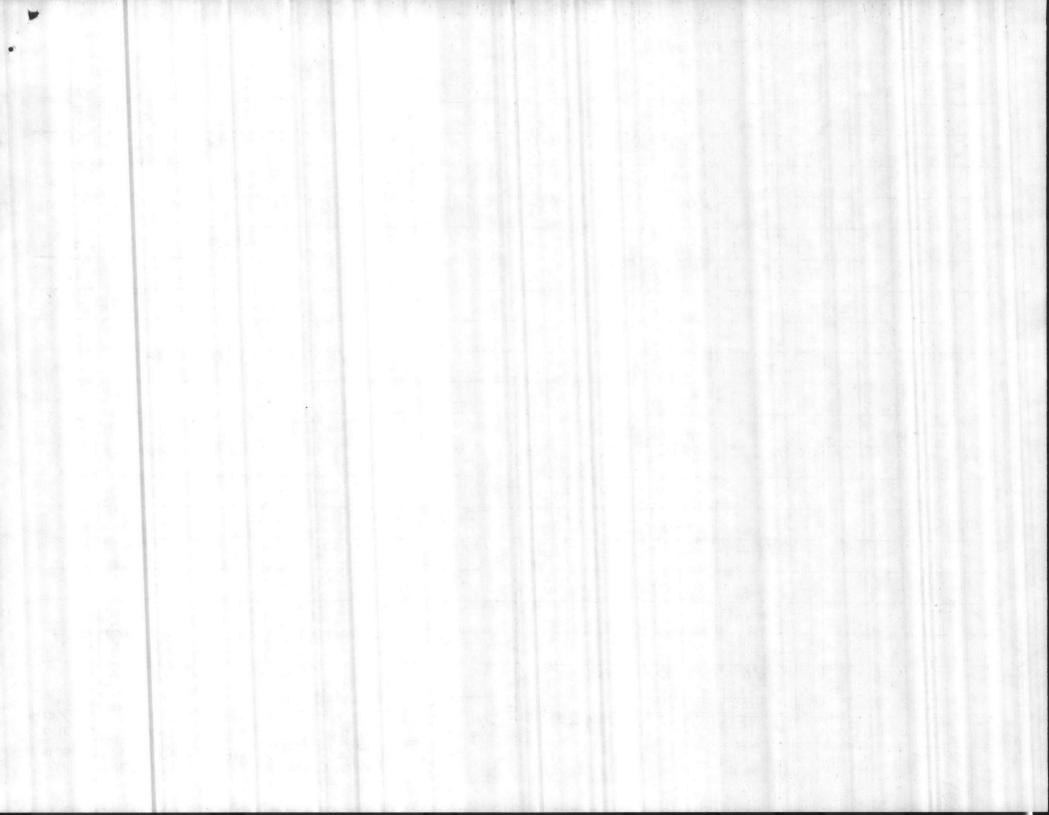


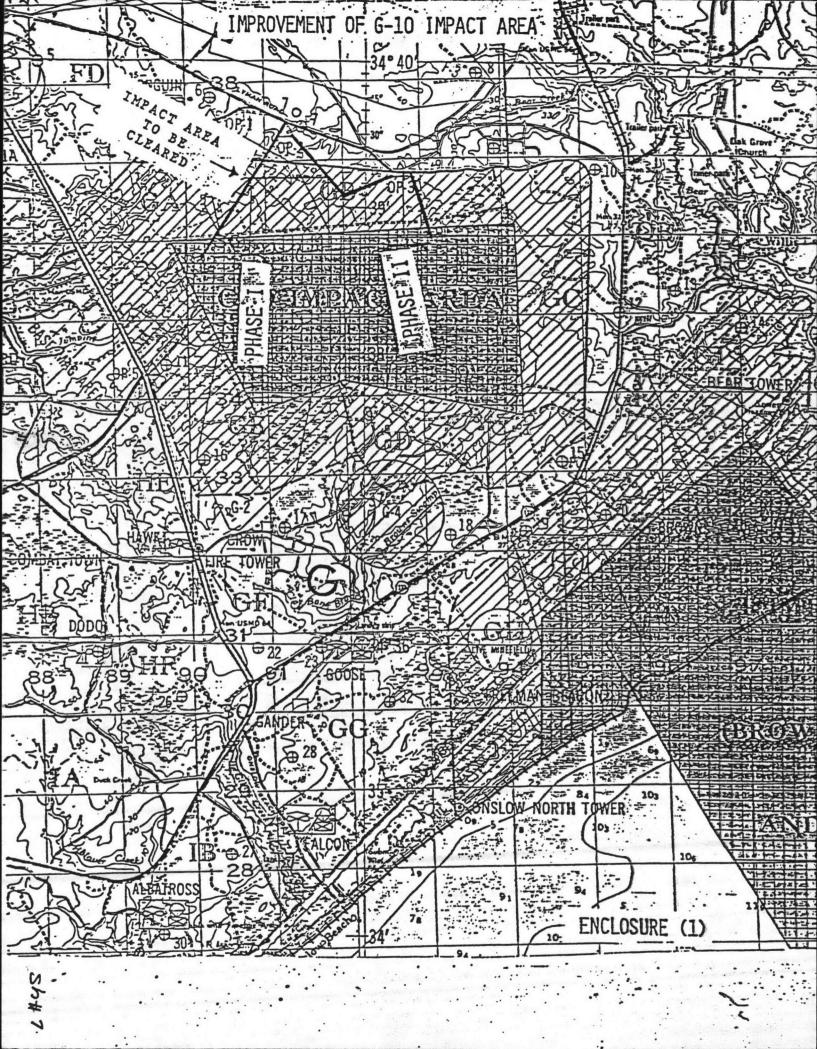
MAINTENANCE COST ESTIMATE WORKSHEET (Cont'd)
MCBCL 11011/1 (REV. 1-81)
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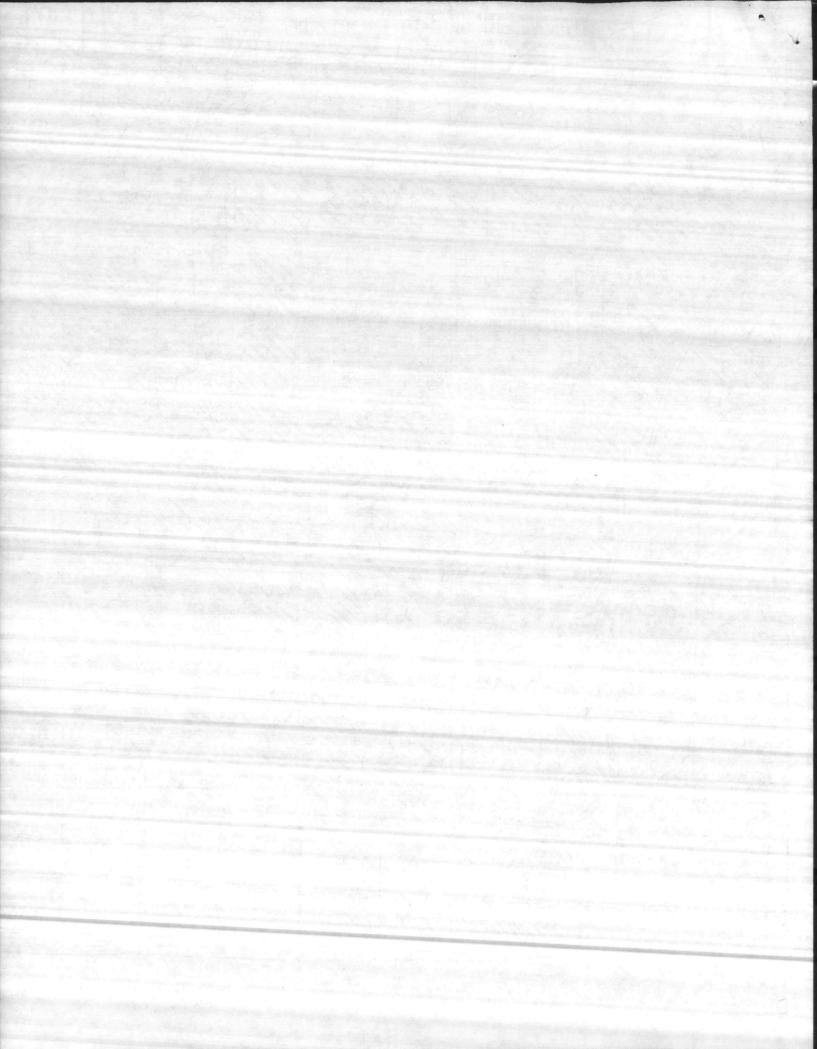
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· Sheet 2 of 2

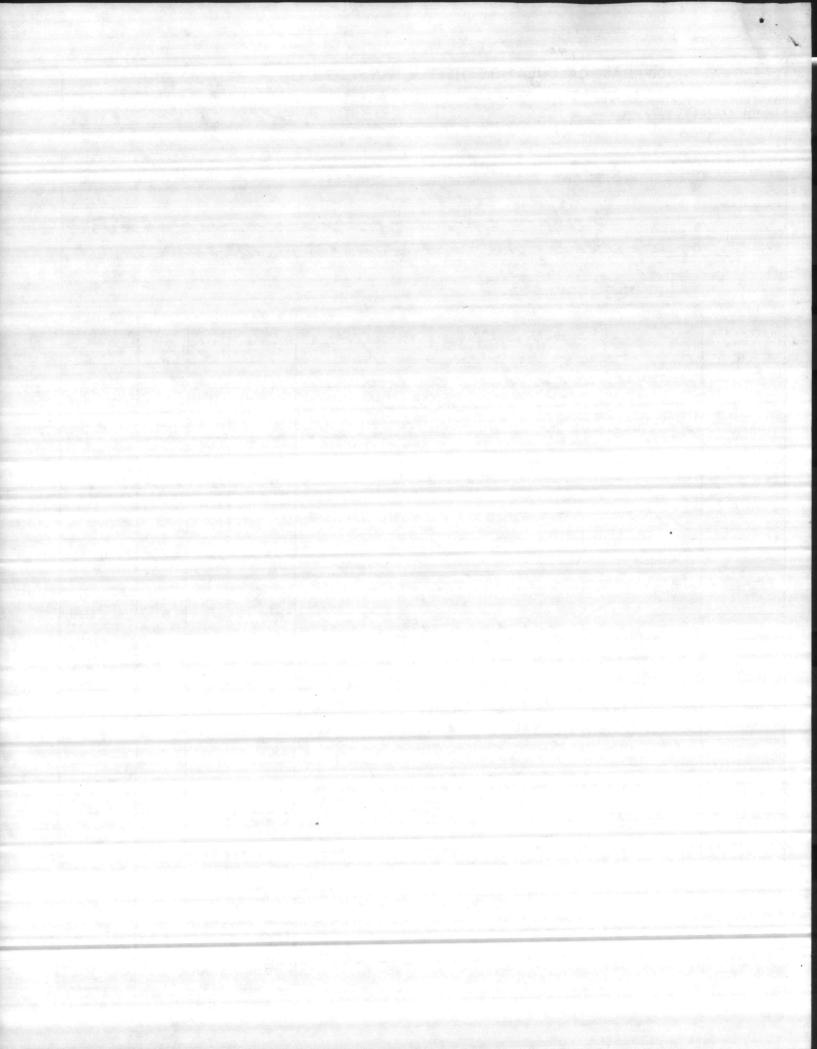
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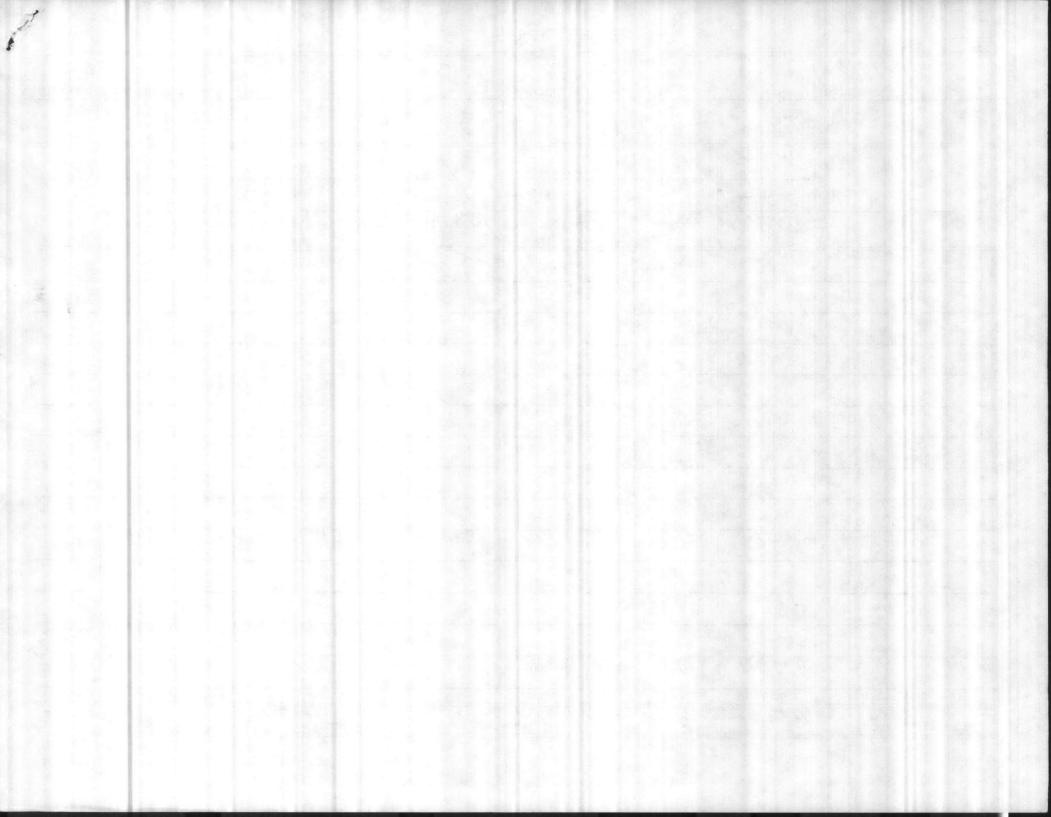


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MAINTENANCE COST ESTIMATE WORKSHEET MCBCL 11011 (REV. 1-81)

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REMARKS:			1						
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UNITED STATES MARINE CORPS Marine Corps Base

Camp Lejeune, North Carolina 28542

Dug, SaffAC/REA/hf 5 APR 1984

Chairman, Environmental Enhancement/Impact Review Board From:

Distribution List To:

Environmental Enhancement/Impact Review Board; meeting of Subj:

BO 11015.2G Ref: (a)

BO 11000.1A (b)

Improvement of G-10 Impact Area Encl: (1)

Proposed Clearing of K-211 Range and K-2 Impact Area (2)

P-465, Loading/Unloading Apron (3)

P-335, Runway Centerline Lighting (4)

P-495, Helicopter Internal Stores Storage (5) P-211, Ground Support Equipment Facility (6)

(7) P-498 & P-499, Interim GSE Facilities

Improvements to Artillery Firing Positions

In accordance with the provisions of reference (a), a meeting of the subject Board is scheduled in the Conference Room of Building 1 at 0930, Thursday, 12 April 1984. Advisors to the Board are invited to attend the meeting.

The Board will review the preliminary environmental assessments as provided in enclosures (1) through (8) and provide recommendations on environmental significance to action sponsors. Members and advisors knowing of other agenda items should notify the Chairman at ext. 3034/5925 as soon possible prior to the meeting.

M. G. LILLEY

DISTRIBUTION:

(Members)

Rep, 2d MarDiv (G-4)

Rep. 2d FSSG (G-4) Rep, 6th MAB (G-4)

Rep, MCAS(H), NR (S-4)

TFACO

BMO

PWO

(Advisors)

Dir, NREA

SupvEcologist BWildlifeMgr

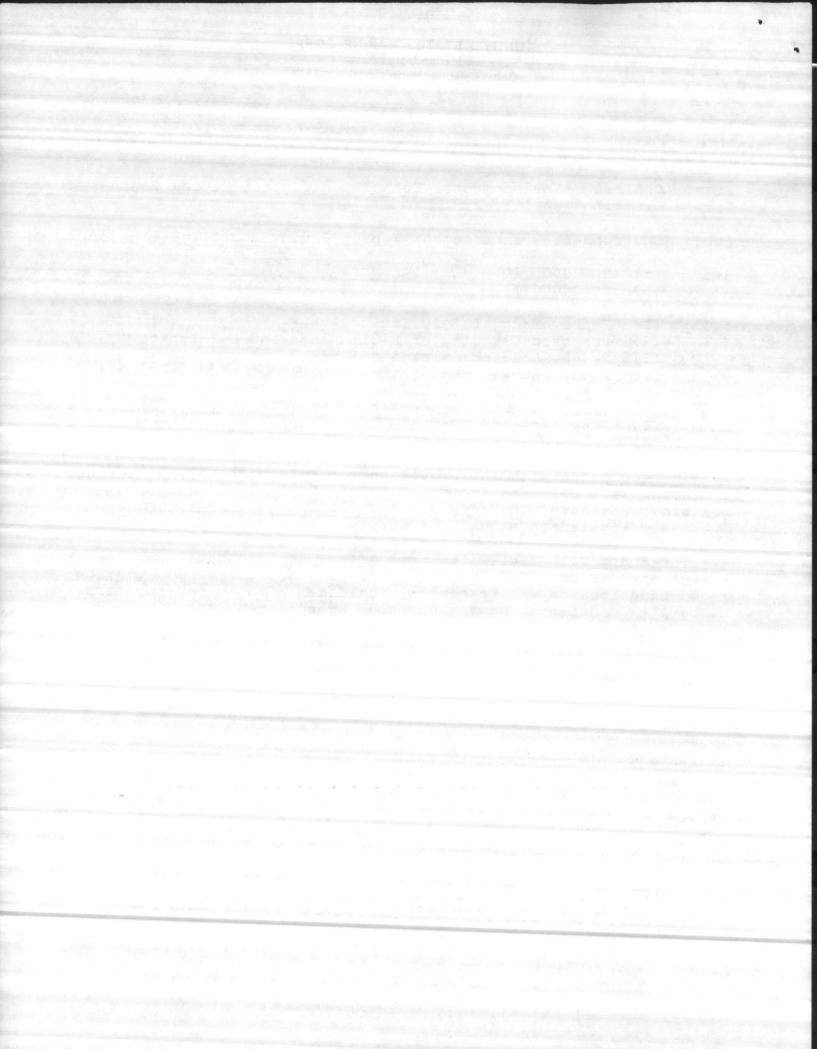
BGameProtector

SAFD

SJA DPDO

Ch. VetMedSvc, NavHosp

Ch, Occup/PrevMed; NavHosp



PRELIMINARY ENVIRONMENTAL ASSESSMENT

FOR

RANGE G-10

- Enclosure. Map showing proposed range improvements.
- 2. Purpose and Need. The purpose of this proposed action is to return the G-10 Impact Area to its original condition when it was first constructed. This action will provide the Marine Corps Base, Camp Lejeune, North Carolina with a range for air delivered ordnance, direct fire ordnance, and indirect fire ordnance to teach Marines the skills necessary for combat situations.
- 3. Project Description. The project consists of clearing trees and brush as indicated in the enclosure and landscaping of the range to establish permanent grasses for erosion control and to facilitate maintenance.
- 4. Site Selection. The sites are located on enclosure (1) and allows for visibility of target areas.
- 5. Range Characteristics. A common impact area is used for all types of mortars, artillery rounds, and missiles, Targets consist of personnel, vehicle, and material targets supplemented by surveyed natural terrain features:
- .6. Compliance With Environmental Requirements
 - a. Air Quality: No emissions are anticipated.
- b. Land Quality: Erosion control measures will be included in the project design. Construction management will provide preventive measures to contain all sediment on site. Reseeding of disturbed areas and vegetative cover on the cleared area will-be accomplished within 30 days of completion of construction.
- c. Clean Water Act: No discharge of wastes to surface waters will occur during range development or subsequent use.
- d. National Historic Preservation Act: No significant cultural resources are located on the project site.
- e. Executive Order 11990 Protection of Wetlands: Disturbance of wetlands will be avoided during clearing and earthmoving.
- f. Endangered Species Act: The impact of this project on the habitat of the Red-Cockaded Woodpecker has been determined to be neglible. This statement is based on the determination that the habitate of the species does not occur within the area to be affected by clearing and earthwork.



To:

UNITED STATES MARINE CORPS Range Control Marine Corps Base Camp Lejeune, North Carolina 28542

RCTL/IIBR/vec 11000 26 Mar 84

From: Range Control Officer

Assistant Chief of Staff, Facilities

Assistant Chief of Staff, Training Foursedy (Megmes his willen)

Theliano ritide MEY

Subj: Improvement of G-10 Impact Area; request for

Ref: (a) MCO 3570.1A

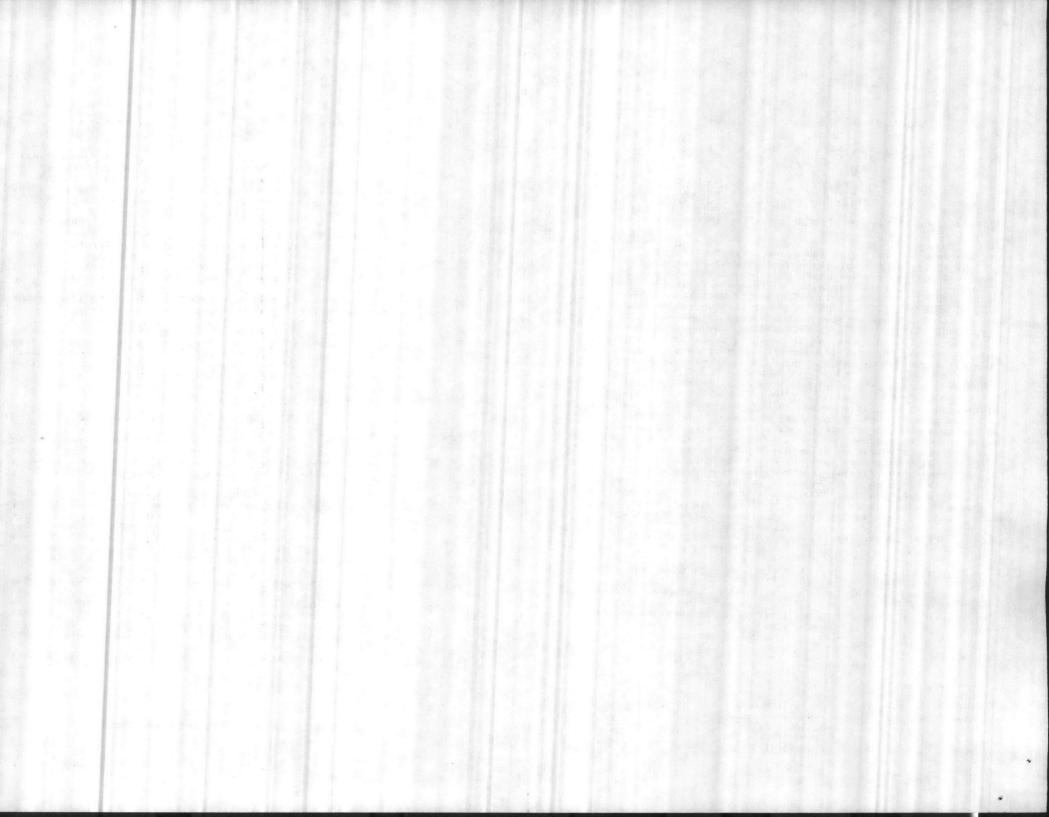
Encl: (1) Map Showing Range

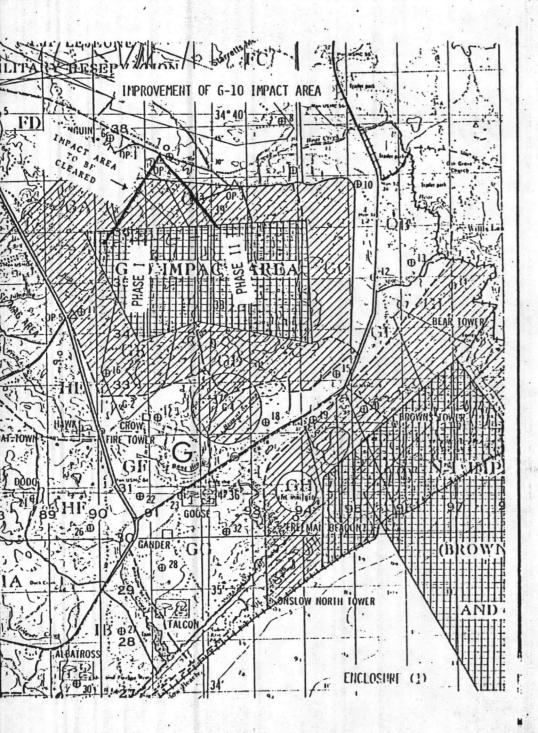
(2) Preliminary Environmental Assessment (PEA)

- 1. The G-10 Impact Area is the main impact area for Camp Lejeune and is used for air delivered ordnance, direct fired ordnance, and indirect fired ordnance. Current refurbishment plans for G-10 call for the clearing of trees in front of OP-5 for use as a Infantry Weapons Range and to aid visibility for Forward Observers from OP-5 observing indirect fire into G-10. Visibility of target areas within the G-10 Impact Area has deteriorated due to growth of trees and vegetation to the point that less than half of the target areas can be seen from any OP. In accordance with reference (a), and in order to meet the training requirements of tenant commands at Camp Lejeune, it is requested that the vegetation, i.e. trees, etc..., obscuring visibility of target area in the G-10 Impact Area be removed.
- 2. The total area to be cleared is shown in enclosure (1) and will have no significant environmental impact. Because of the amount of clearing to be done, it is recommended that the clearing operation be done in phases as shown in enclosure (1). Scheduling of the clearance phases must be planned so as to have the least impact on training. An EOD sweep of the area to be cleared of vegetation will be conducted prior to the commencement of each phase of the operation. Clearing of trees could be accomplished by heavy equipment. EOD support will be provided for all down range construction work. Enclosure (2) is the Preliminary Environmental Assessment (PEA) for the proposed range improvement.

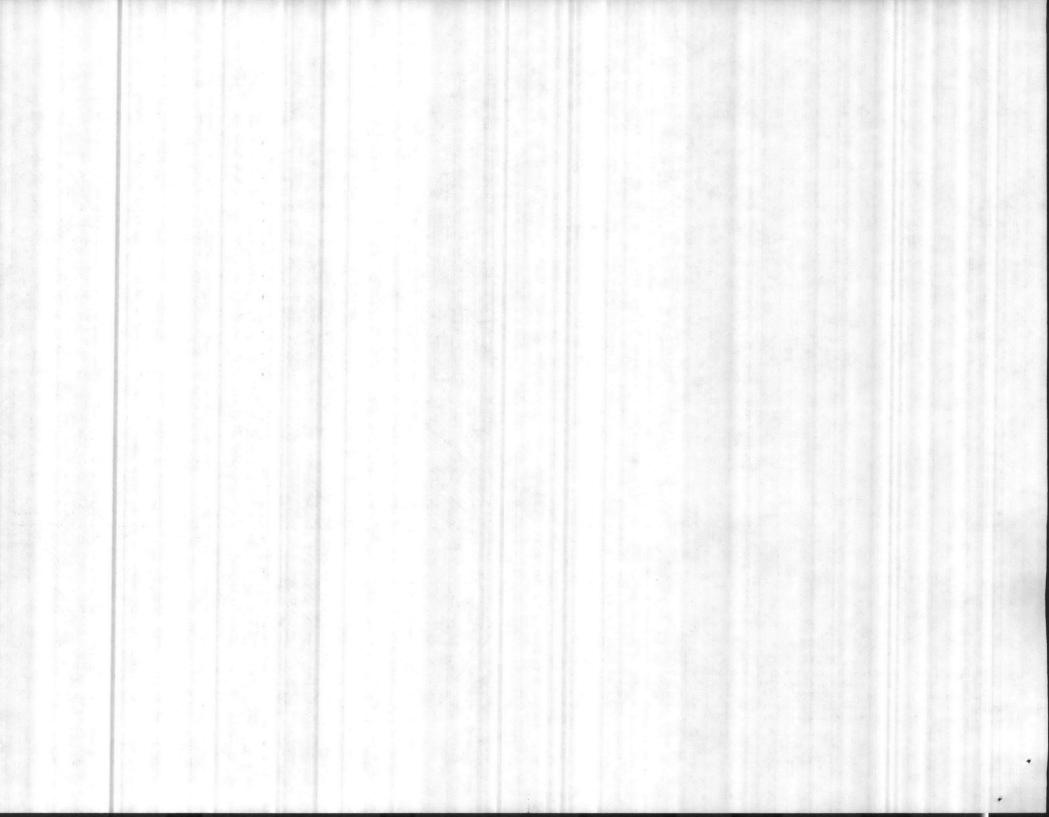
3. Point of contact is: MSqt MOSES, Range Maintenance Chief, phone extension 5211/3542.

ERGLOSURE.





7. Conclusion. The proposed improvements for the G-10 Impact Area will not result in significant environmental impact provided the measures described herein are followed. Further, the project is not considered controversial, thus, preparation of an Environmental Assessment per Marine Corps Order 6280.5 is not required.



PRELIMINARY ENVIRONMENTAL ASSESSMENT FOR K-211 M203/MK-19 40MM GRENADE RANGE

- 1. Enclosures. Map showing proposed range.
- 2. Purpose and Need. The purpose of this proposed action is to provide the Marine Corps Base (MCB), Camp Lejeune, North Carolina with a range in the Verona Loop Area to teach grenade launcher firing techniques and to prepare grenadiers for combat situations. It can handle the M-203 grenade launcher, M-79 grenade launcher, MK-19 40MM machine gun, and all types of rille orenades and launchers.
- 3. Project Description. The project consists of clearing trees and brush as indicated in the enclosure and landscaping of the range to establish permanent grasses for erosion control and to facilitate maintenance.
- 4. Site Selection. The site is located on enclosure (1). The location is currently part of the surface danger area for the K-2 Impact Area. The site was selected because the terrain allows for visability at ranges up to 2200 meters.
- 5. Range Characteristics
 - a. Number of Firing Positions 6
 - b. Firing Line Width 30 meters
- c. Target Area Width 150 meters at 400 meters from the firing line expanding out to 300 meters at 2200 meters from the firing line.
 - d. Minimum Range Depth 2200 meters
 - e. Firing Point Configuration Concrete cinder block wall.
- Target configuration Static personnel and material targets.
- 6. Compliance with Environmental Requirements
 - a. Air Quality: No emmissions are anticipated
- b. Land Quality: Errosion control measures will be included in the project design. Construction management will provide preventive measures to contain all sediment on site. Resecting of disturbed areas and vegetative cover on the cleared area will be accomplished within 30 days of completion of construction.
- c. Clean Water Act: No discharge of wastes to surface waters will occur during range development or subsequent use.
- d. National Historic Preservation Act: No significant cultural resources are located on the project site.



UNITED STATES MARINE CORPS MARINE CORPS BASE CAMP LEJEUNE, MORTH CAROLINA 38542

RCTL/HBR/ves 11000 30 January 1984

From: Range Control Officer

· To: Assistant Chief of Staff, Facilities

Via: Assistant Chief of Staff, Training

Subj: Improvement of 40MM Grenade Range K-211; request for

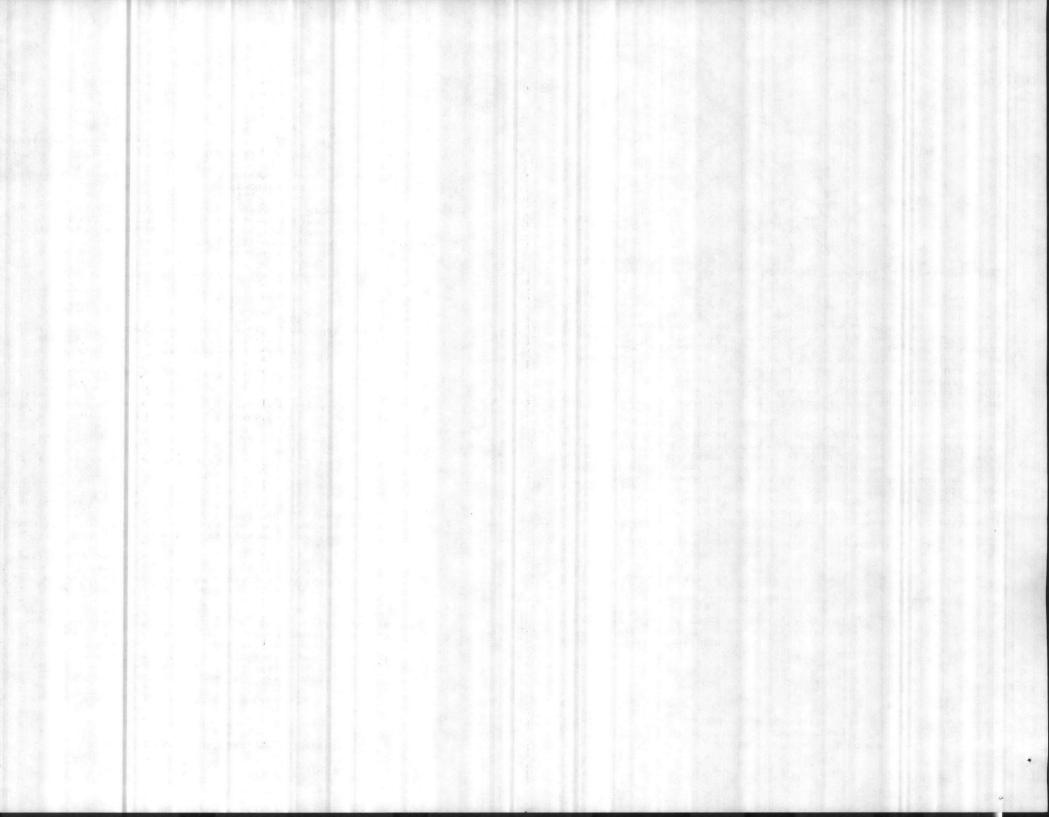
Ref: (a) NCO 3570.1A

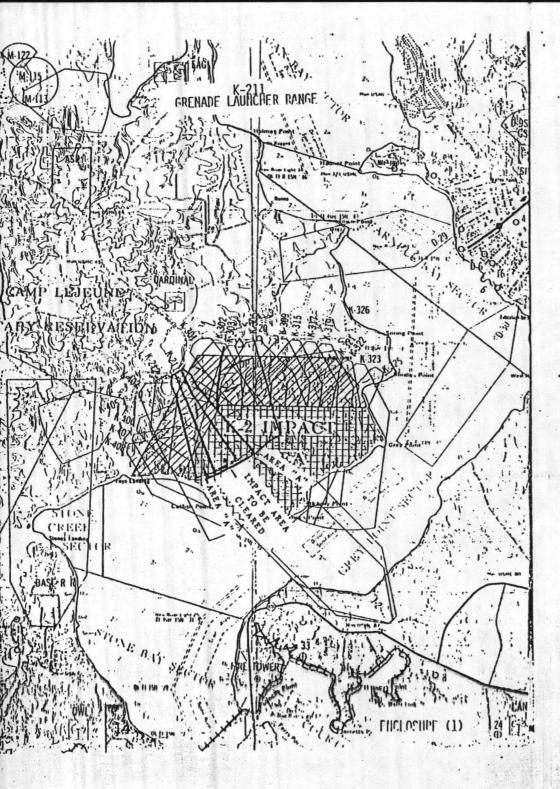
Encl: (1) Map Showing Range

(2) Preliminary Environmental Assessment (PEA)

- 1. Introduction of the MK-19, 40MM gun system has established a requirement for Marine Corps Base, Camp Lejeune, North Carolina to provide a live fire training range for use of this weapon system in the Verona Loop area. Range K-211 is currently used for 40MM grenade firing with the M-203 grenade launcher. In accordance with reference (a), and in order to meet the training requirements of tenant commands at Camp Lejeune, it is requested that Range K-211 be expanded to accommodate the MK-19 gun system. The Commanding General has been briefed on this range expansion and has given his tacit approval.
- 2. The total area to be cleared is shown in enclosure (1), has no economic value and will have no significant environmental impact. Because the maximum effective range of the M-203, 40MM system is 400 meters, no dud grenades have been found past 500 meters. An EOD sweep of the area to be cleared of vegetation, as shown in enclosure (1), has not located any dud ordnance. Clearing of trees could be accomplished by heavy equipment from Base Maintenance. EOD support will be provided for all down range construction work. Enclosure (2) is the Preliminary Environmental Assessment (PEA) for the proposed range improvement.
- Point of contact is: MSgt MOSES, Range Maintenance Chief, phone ext 5211/3542.

Enclosure (2)





- e. Executive Order 11990 Protection of Wetlands:
 disturbance of wetlands will be avoided during clearing and earthmoving.
- f. Endangered Species Act: The impact of this project on the habital of any endangered species has been determined to be negligible. This statement is based on the determination that no endangered species are known to live in the area to be affected by clearing and earthwork.
- 7. Conclusion. The proposed improvements for the K-211 Grenade Launcher Range will not result in significant environmental impact provided the measures described herein are followed. Further, the project is not considered controversial, thus, preparation of an Environmental Assessment per Marine Corps Order 6280.5 is not required.



PRELIMINARY ENVIRONMENTAL ASSESSMENT

FOR

RANGE K-2

- 1. Enclosure. Map showing proposed range.
- 2. Purpose and Need. The purpose of this proposed action is to provide the Marine Corps Base, Camp Lejeune, North Carolina with a range in the Verona Loop Area to teach Marines the skills necessary for combat situations.
- 3. Project Description. The project consists of clearing trees and brush as indicated in the enclosure and landscaping of the range to establish permanent grasses for erosion control and to facilitate maintenance.
- 4. Site Selection. The site is located on enclosure (1). The location is currently part of the surface danger area for the K-2 Impact Area. The site was selected because the terrain allows for visability at ranges up to 2800 meters.
- 5. Range Characteristics. A common impact area is used for all typed of mortars, artillery rounds, and dragon missiles. Targets consist of personnel, vehicle, and material targets supplemented by surveyed natural terrain features.
- 6. Compliance with Environmental Requirements.
 - a. Air Quality: No enunissions are anticipated.
- b. Land Quality: Erosion control measures will be included in the project design. Construction management will provide preventive measures to contain all sediment on site. Reseeding of disturbed areas and vegetative cover on the cleared area will be accomplished within 30 days of completion of construction.
- c. Clean Water Act: No discharge of wastes to surface waters will occur during range development or subsequent use.
- d. National Historic Preservation Act: No significant cultural resources are located on the project site.
- e. Executive Order 11990 Protection of Wetlands: Disturbance of wetlands will be avoided during clearing and earthmoving.
- f. Endangered Species Act: The impact of this project on the habitat of any endangered species has been determined to be migligible. This statement is based on the determination that no enlangered species are known to live in the area to be affected by clearing and earthwork.

Enchosites (2)



UNITED STATES MARINE CORPS MARINE CORPS BASE CAMP LEJEUNE NORTH CAROLINA 28542

RCTL/HDR/irh 11000 8 Harch 1984

From: Range Control Officer

To: Assistant Chief of Staff, Facilities
Via: Assistant Chief of Staff, Training for the

Subj: Improvement of K-2 Impact Area; request for

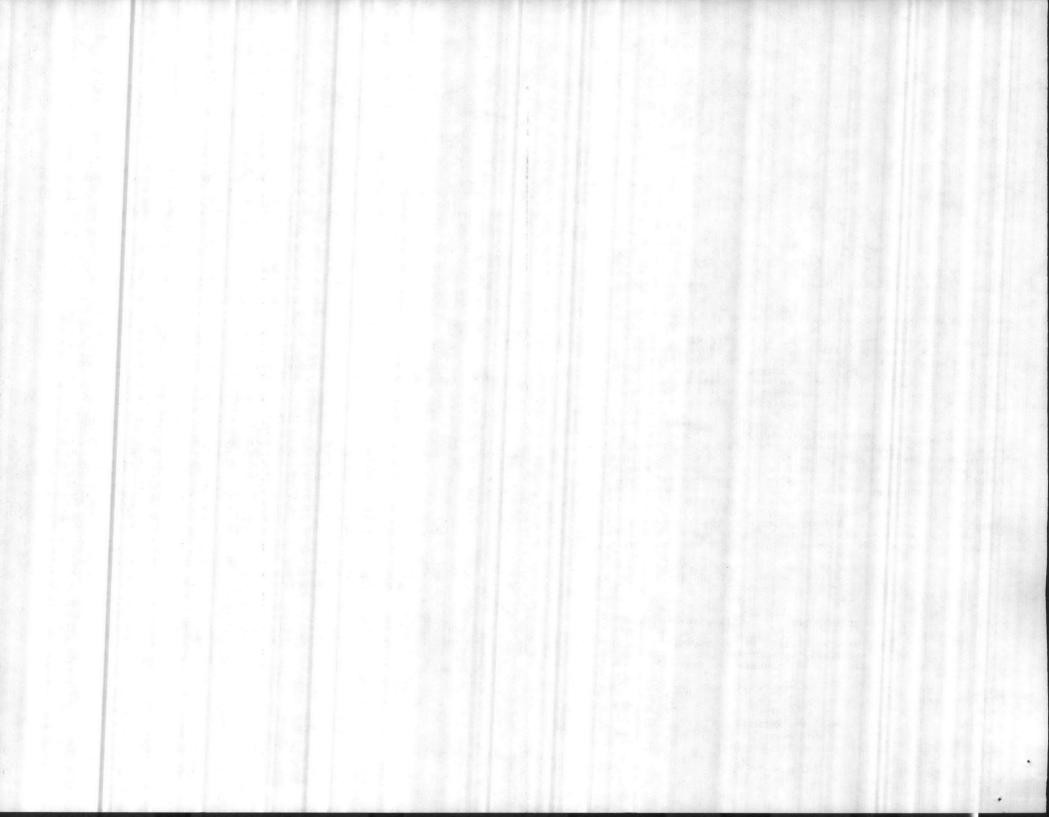
Ref: (a) MCO 3570.1A

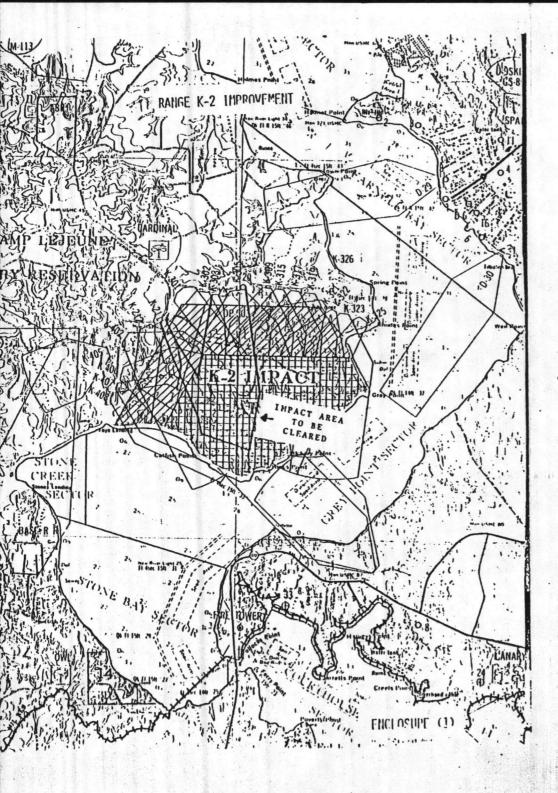
Encl: (1) Map Showing Pange

(2) Preliminary Environmental Assessment (PEA)

- 1. Introduction of the M198, 155mm gun system and improved ammunition for the 60mm and 81mm gun system has established a requirement for Marine Corps hase, Camp Lejeune, North Carolina to provide a live fire training range for use of these weapon systems in the Verona Loop Area. Range K-211 is currently used for 40mm grenade firing with the M203 grenade launcher and is scheduled for refurbishment to accommodate the MK-19, 40mm gun system. Range K-303 and K-305 are used for the 60mm, 81mm gun system, and Dragon Missile system. In accordance with reference (a), and in order to meet the training requirements of tenant commands at Camp Lejeune, it is requested that Range K-303 and K-305 be expanded as shown in enclosure (1).
- 2. The total area to be cleared is shown in enclosure (1) and will have no significant environmental impact. An EOD sweep of the area to be cleared of vegetation will be conducted prior to the commencement of clearance operations. An EOD survey of the area to be cleared of vegetation, as shown in enclosure (1) has not located any dud ordnance. Clearing of trees could be accomplished by heavy equipment. EOD support will be provided for all down range construction work. Enclosure (2) is the Preliminary Environmental Assessment (PEA) for the proposed range improvement.
- 13. Point of contact is: MSqt Moses, Range Maintenance Chief, phone extension 5211/3542.

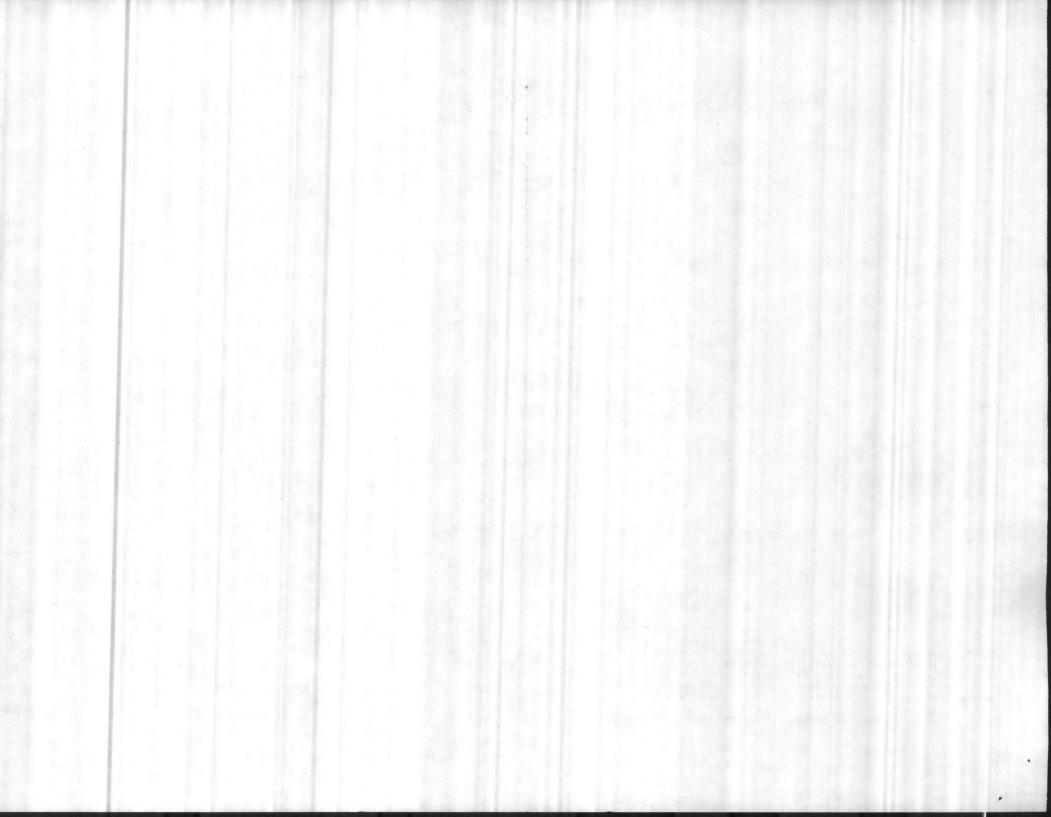
. 26.1 H. 1100





· PRELIMINARY ENVIRONMENTAL ASSESSMENT continued:

7. Conclusion. The proposed improvements for the K-2 Impact Area will not result in significant environmental impact provided the measures described herein are followed. Further, the project is not considered controversial, thus, preparation of an Environmental Assessment per Marine Corps Order 6280.5 is not required.



- c. Clear fir fet. No discharge of air pollutants is anticipated.
- d. teartal Fone Panagement Ret (CTA). Let applicable to this rite.
- e. Dehacological and Mistoric Prograntion Let. I thing of archaeological or historic significance has been identified at this site.
- f. borth Carolina Fresion and Sadimentation Fegulations. Fresion problems are not forsecable and this regulation is not applicable.
- g. Mazardous Materials and Mazardous Waste Disposal. Ho hazardous materials or waste are anticipated, therefore this item is not applicable.
 - h. Protections of Wetlands Executive Order 11990. Not applicable.
- i. Sanitary Waste and Refuse Disposal. Sanitary waste and refuse will not be generated and therefore do not require consideration.
- 4. <u>Probable Impact</u>. Construction of the ordnance arming/dearming pad and the proposed loading/downloading pad and parking area would eliminate the Waiver requirements New River now operates under. The project would lessen the charge of an incident that would endanger lives and lower accident . retential with growth of training and ordnance missions. The proposed action should have no significant adverse effect on the environment.

Attachment (GDM)

Trelliainary Environmental Tops et Ernessmed Gog Totalling/Feenbracher Ersen at the

Backer Corps All Station (better to)

1. Action/Project Pescuiption.

The project will provide construction of a contact aircraft loading/downloading agree and parking area. The apren will be a 12" concrete also with aircraft tie downs and grounding. Asphalt access road with lighting and ordnance trailer holding area. The Fleet Marine Force mission requires that loading of explosive ordnance and combat aircraft aboard station is essential for the training and readiness of personnel assigned to the Barine Air Groups. Currently no area exists that meets the quantity distance requirements specified for ordnance handling and training at squadron levels. Vaiver Lo. BCAS (B), HEEC 1-78) was authorized 2 Bay 1976 and renewed 12 May 1982 and is due to expire 31 Earch 1984. A request for renewal is in process at this time.

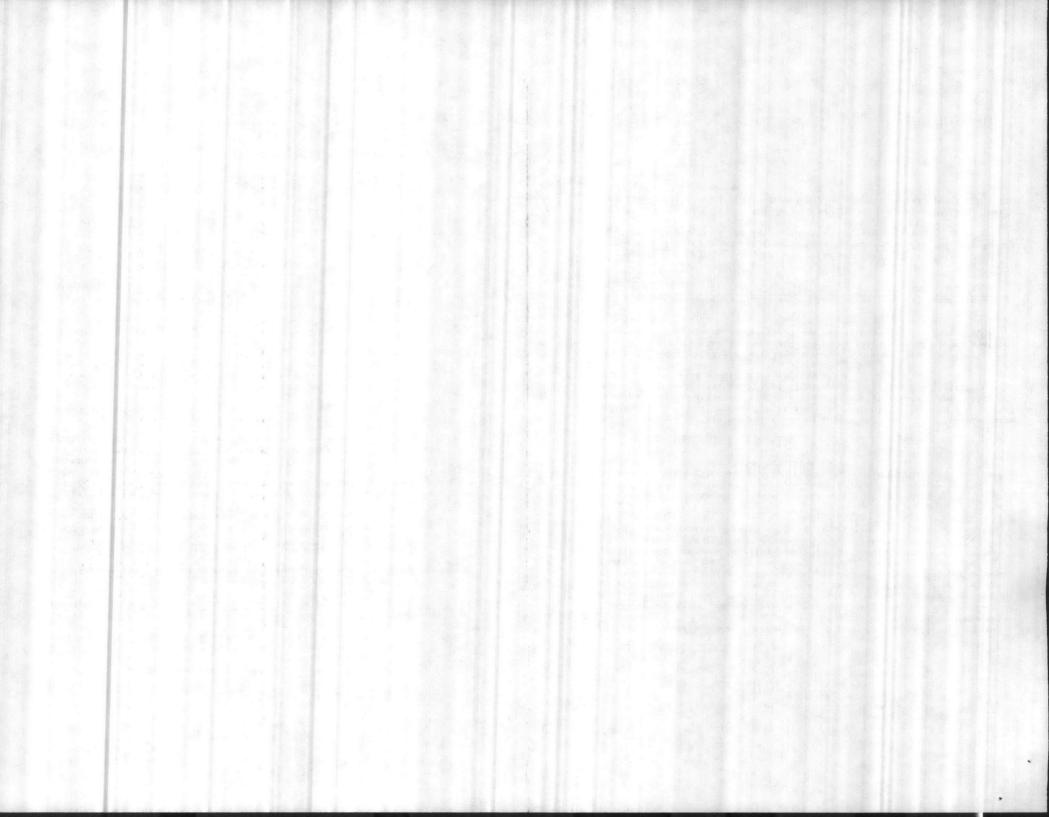
The proposed site is adjacent to the existing taxiway and allows for good drainage, vegetation other than grass is non-existant, water and scwage are not applicable to this project. No major changes in landscape would be incurred under this project.

2. Consideration of Site Selection.

An alternative to this project would be to arm and dearm at a training site. Additional personnel and equipment are not available to support such a training mission. Severe logistics problems associated with remote sites lacking operational facilities would curtail ordnance operations and affect training/readiness within the squadrons.

The site location offered here is convenient and would have relatively little impact upon the environment. No other site is available on station that would meet the necessary Explosive Safety Quantity Distance (ESQD) clearances.

- 3. Compliance with Federal, State and Local Environmental Regulations and Guidelines.
- a. <u>Endangered Species</u>. Deployment of personnel for training would incur more likelihood of non-compliance with this act. Project site is not applicable since it is not inhabited by endangered species.
- b. Clean Water Act. Spills incurred in the area are unlikely, however strict compliance with spill reporting, containment and cleanup IAW MCB Order 11000.18 will be enforced.



Preliminary Environmental Impact Assessment for Punway Centerline Lighting at the Marine Corps Air Station (Helicopter) New Piver, Jacksonville, NC

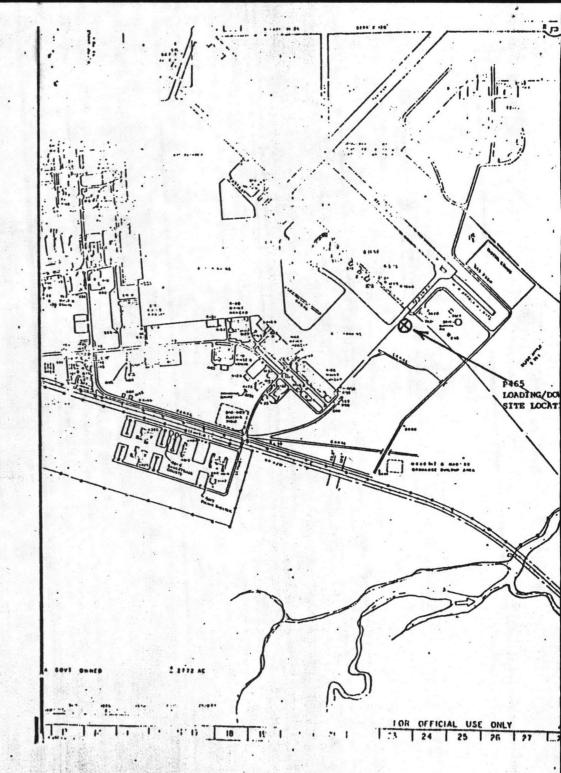
1. Action/Project Description.

This project provides centerline lighting for the primary runway at the Marine Corps Air Station (II), New River facility. The cable to feed the lights will be fed partially through an existing ductway from building 500 to building 3620 a new concrete encased ductway and cable will be installed and a new duct bank to the runway and down the centerline, a distance of 5000 LF, with a total of 200 new lights. An addition to building 3620 will be required to house the controls and switchgear for the project.

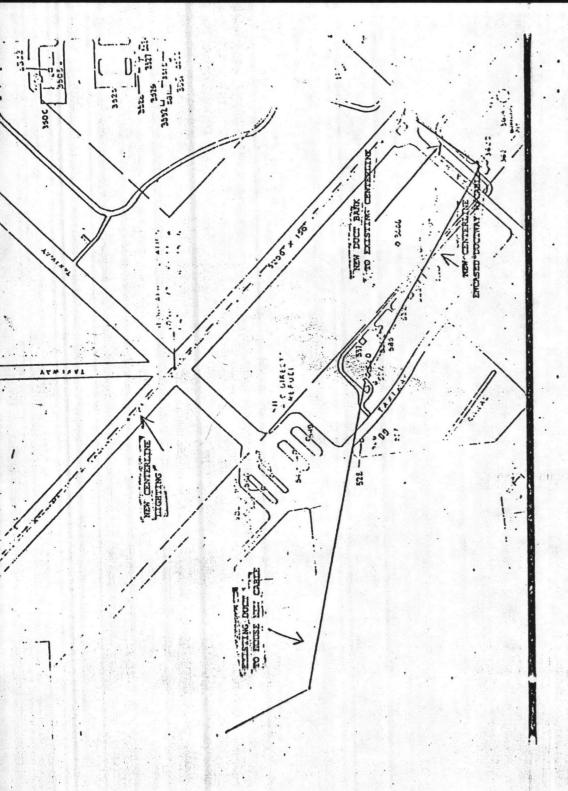
2. Consideration of Site Selection.

The site was selected as the most utilized runway due to its size and its capability to handle the transit traffic with its varied aircraft traffic.

- 3. Compliance with Federal, State and Local Environmental Regulations and Guidelines.
- a. Endangered Species. The habitat of endangered species does not exist in this project area.
- b. Clean Water Act. This project will not alter or introduce toxic or hazardous substances or significant amounts of chemicals, organic substances or solid wastes into bodies of water, on land or otherwise effect water or soil quality.
- c. Clean Air Act. No emissions will be released into the atmosphere of toxic or hazardous substances or significant amounts of pollutants.
- d. Coastal Zone Management Act. Not applicable due to location of projected site.
- e. Archaeological and Historic Preservation Act. No significant cultural resources are with the site limitations.
- f. North Carolina Erosion and Sedimentation Regulations. There is no potential for erosion occurring, therefore this regulation does not apply.
- g. <u>Hazardous Materials and Hazardous Waste Disposal</u>. No hazardous materials or waste are anticipated, therefore this item is not applicable.
 - h. Protections of Wetlands Executive Order 11990. Does not apply.



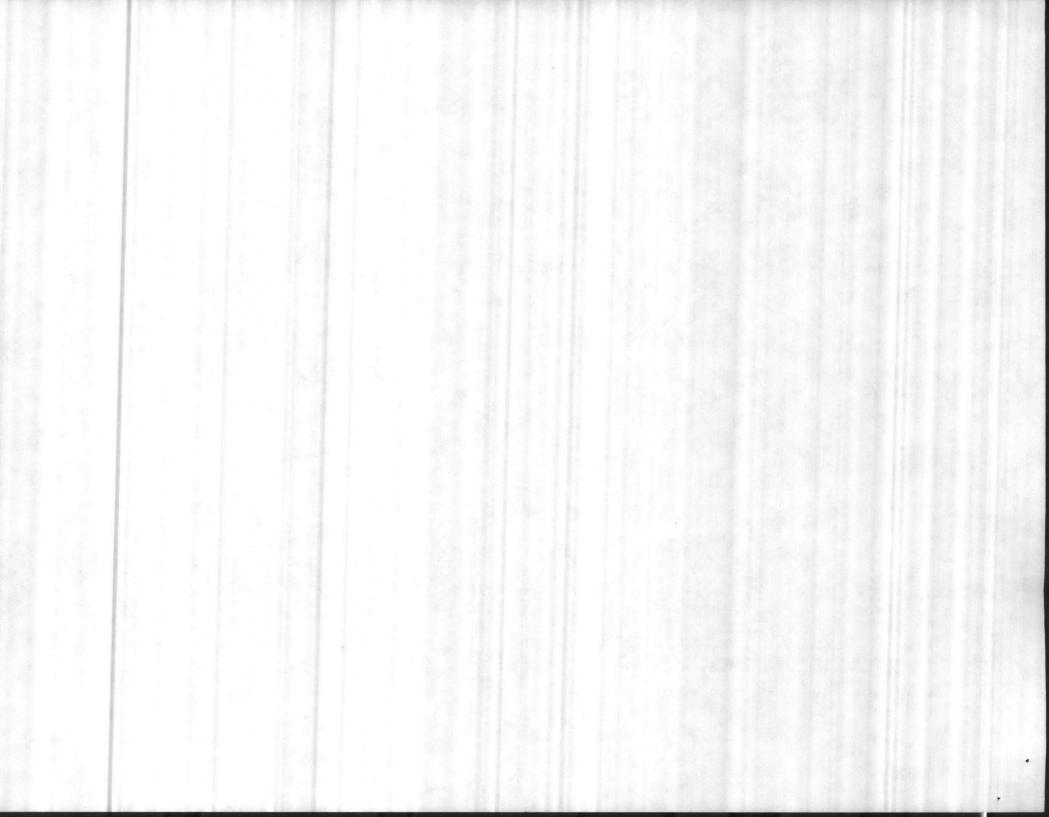




4. Proposed Action Impact. ..

The proposed modification to the existing runway would incor reduced hir traffic on the runway during installation. However, upon completion it would lessen the chances of an accident and enhance the safety of operation status for the FMF training and lessen the stress factors involved in foul weather flying.

ATTACHMENT (GDM)



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- h. Protection of Wetlands Executive Order 11990. Does not apply.
- i. Sanitary Waste and Refuse Disposal. Sanitary waste and refuse are not anticipated, since this will primarily be a storage area.

4. Probable Impact.

The proposed project will not have a significant impact upon the environment nor will it involve the use of air contaminating materials. There will be no loss of forest nor will it change the land use projected in the base master plan. There is no known controversy associated with this project.

Attachment (GDM)

Preliminary Environmental Impact Aumenment for Helicopter Internal Stores Storage at the Marine Corps Air Station (Hélicopter) New River, Jacksonville, HC

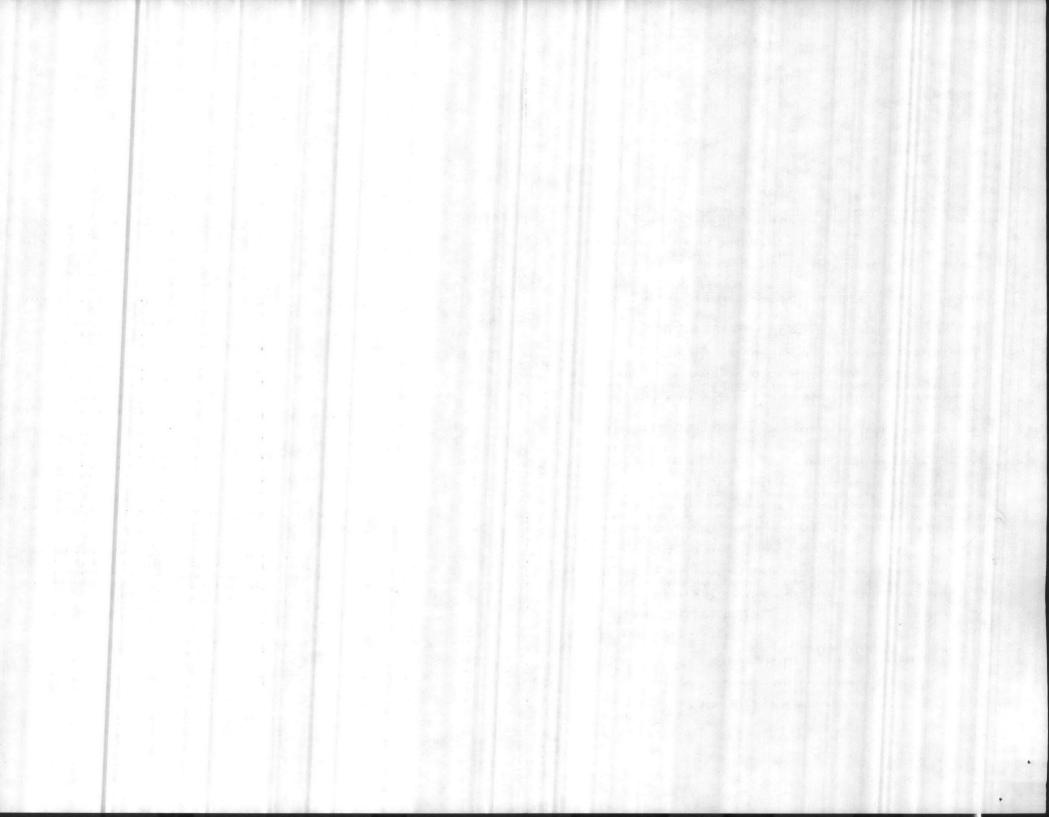
1. Action/Project Description.

The project consists of a prefabricated metal building, asphalt and concrete paving, storm drainage system, lighting and related work. This facility will provide storage for extended range fuel tanks.

2. Consideration of Site Selected.

The proposed site utilizes an area restricted to uninhabited buildings as required by OP-5 ordnance regulations. No alternate site is available that would cause no major change in landscaping and meet the location requirements for the facility. The project will have no foreseeable impact on the long range activity functions in this area.

- 3. Compliance with Federal, State and Local Environmental Regulations and Guidelines.
- a. Endangered Species. Project site is not inhabited by endangered species.
- b. Clean Water Act. This project will require disposal of a small amount of residual fuel found in the storage tanks. Consideration will be given to this requirement at the design stage.
 - c. Clean Air Act. No discharge of air pollutants is anticipated.
- d. Coastal Zone Management Act (CZMA). Not applicable to this site location.
- e. Archaeological and Historic Preservation Act. No significant resources have been identified in this area.
- f. North Carolina Erosion and Sedimentation Regulations. Minimal erosion may occur during construction requiring silt fences but long range problems are not anticipated.
- g. Hazardous Materials and Mazardous Waste Disposal. Mazardous waste at this site will be handled in accordance with applicable base regulations.



Preliminary Environmental Impact Assessment
for
Ground Support Equipmen
at the
Marine Corps Air Station (Helicopter)
New River, Jacksonville, NC

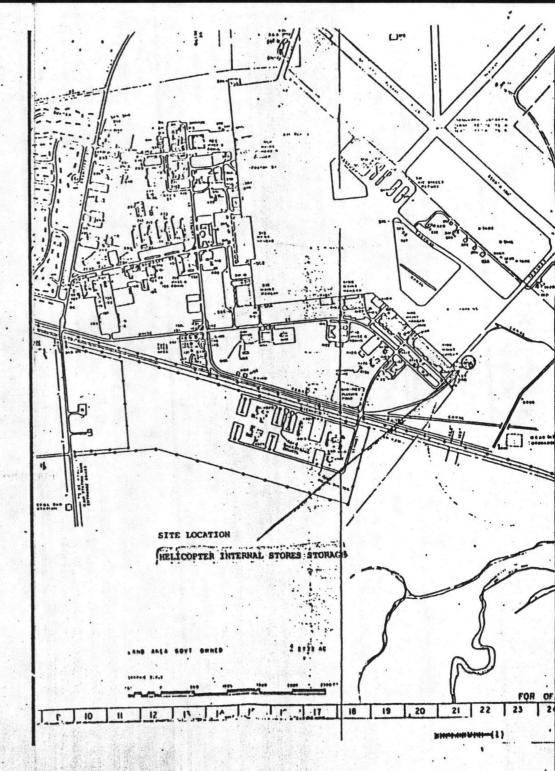
1. Action/Project Description.

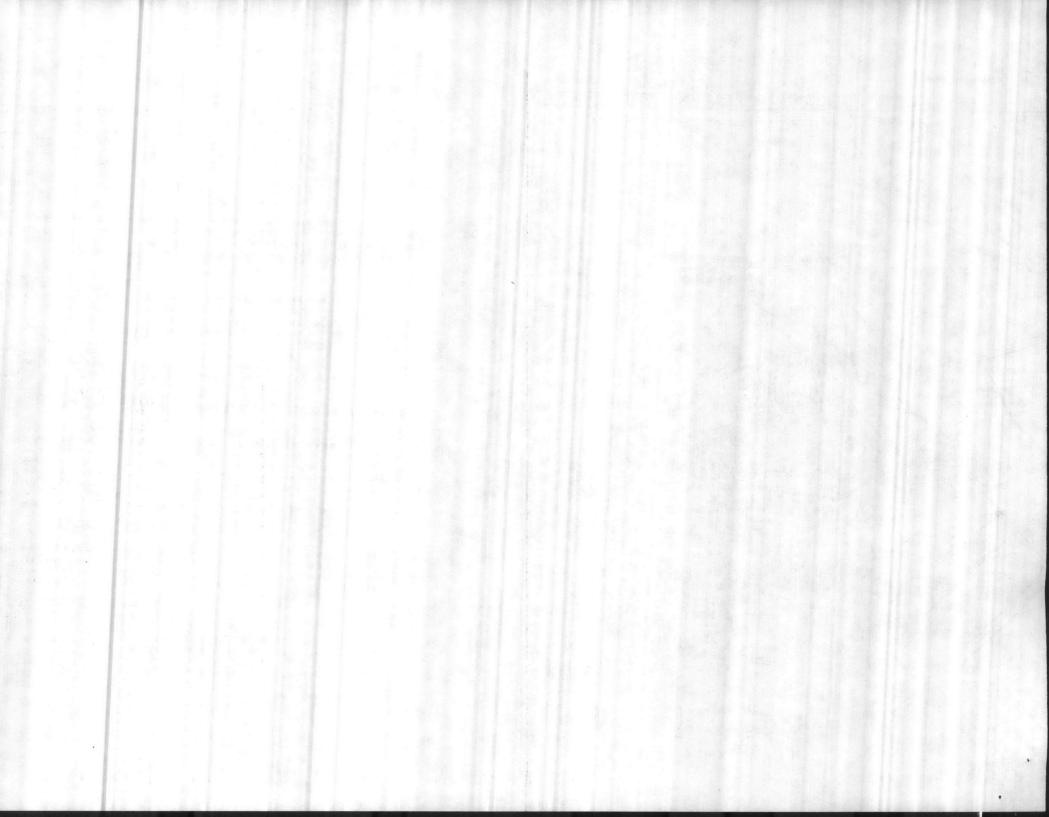
The proposed GSE facility will provide a concrete floor, metal building with an overhead crane, exhaust vent system, CHU interior walls, plumbing, electric, storm and sanitary systems, and sprinkler and intercom systems. Asphalt paving, concrete walks and a fenced outside storage area.

2. Consideration of Site Selected.

The site is unimproved with grasses, shrubs and pine trees, conveniently located in the Marine Air Group 29 area (see enclosure (1)). The current GSE group for the MAG 29 is physically located urgently required for increased IMA functions generated by the mirror image reorganization. This project will improve operational efficiency by allowing room for maintenance support now being performed in remote sites and under primitive conditions and improving the morale of personnel who currently are working in those cramped areas.

- 1. Compliance with Federal, State and Local Environmental Regulations and Guidelines.
- a. Endangered Species. This project is not the habitate for any endangered species, therefore does not pose a threat.
- b. Clean Water Act. This project will generate some petroleum, oil and acid wastes. Containment walls will be included during design to retain any potential spills. Base Order 11090.1B, Oil Pollution Prevention and Abatement and Other Hazardous Substances Spil Contingency Plan policies will regulate prevention, collection, clean up and reporting of any pollutant vastes.
- c. Clean Air Act. Incorporation of a water wash exhaust unit and appropriate exhaust ventilation system with filters will be incorporated in the design criteria for this facility, due to paint room requirements associated with ground support equipment main enance and upkeep.



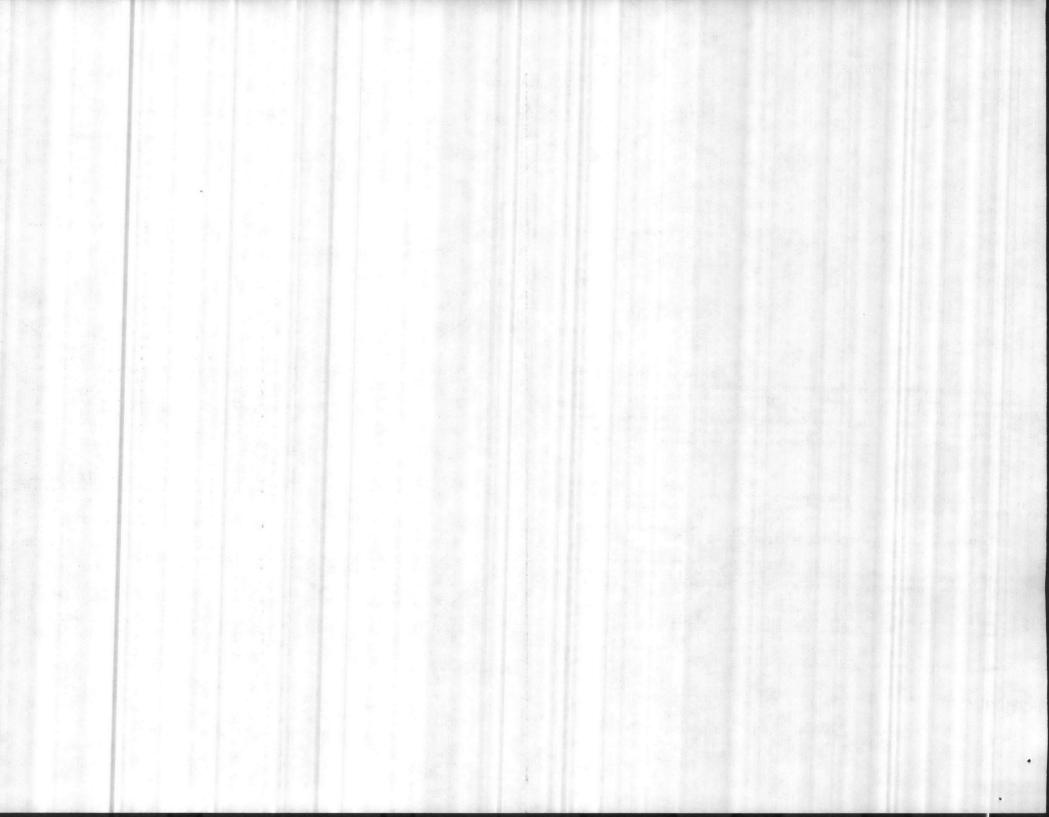


- d. Coustal Zone Management Act (CZMA). Due to the location of this project this
- e. Archeological and Historical Preservation Act. . No known cultural resources
- f. North Carolina Erosion and Sedimentation Regulations. Soil erosion may occur during construction requiring silt fences but long range problems are not unticipated.
- g. Hazardous Materials and Hazardous Waste Disposal. Hazardous waste at this site will be handled in accordance with AS(H) Order 6280.1 and Base Order 11090.18 dealing with hazardous waste disposals and spills.
- h. Protection of Wet Lands Executive Order 11990. This order does not apply to this proposed site location.
- Sanitary Waste and Refuse Disposal. Refuse will be collected in accordance with applicable Marine Corps Base Orders. Sanitary waste system will become a part of the base central system.

4. Probable Impact.

Ground support equipment operations are now being conducted from scattered locations in the aircraft hangar spaces and often outdoors in inclement weather conditions. Proper maintenance supervision and inventory control are virtually impossible. GSE maintenance operations will be forced to continue functioning in multiple inadequate locations without the proposed facility. No significant impact upon the environment will be involved with the proposed project and there is no known controversy associated with this project.

: Attachment - Site Location



Preliminary Environment Impact Assessment for Interim Pacilities (continued)

- c. Clean Air Act. No significant discharge of air pollutants is anticipated.
- d. Coastal Zone Management Act. Both sites are in approved existing hangar areas making this act not applicable.
- e. Archeological and Historical Preservation Act. There are no known cultural resources existing at these sites.
- f. North Carolina Erosion and Sedimentation Regulations. There is no significant potential for sediment to leave either site.
- g. Hazardous Materials and Hazardous Maste Disposal. Disposal operations will be accomplished in accordance with applicable Base Order 6240.5, Mazardous Material Disposal System.
 - h. Protection of Wetlands Executive Order 11990. Does not apply.
- Sanitary Waste and Refuse Disposal. Refuse will be collected in accordance with applicable Marine Corps Base Orders. Sanitary waste system will become a part of the design criteria and will be included in the base central system.

4. Probable Impact.

Ground support equipment operations are now being conducted from scattered locations in the hangar spaces and often outdoors in inclement weather conditions. GSE maintenance operations will be forced to continue functioning in multiple inadequate locations without the proposed facility. The proposed facilities will provide relief for the critical space shortage currently encumbering the proper utilization of existing hangar areas. Training level readiness will be more efficient with increased space allowances. No significant impact upon the environment will be involved with the proposed project. Personnel morals: and welfare will improve. There is no known controversy associated with this project.

Attachment - Site Location Map

P-498 P-499

Preliminary Environment Impact Assemment for Interim Pacilities at the Harine Corps Air Station (Helicopter) New River, Jacksonville, NC

1. Action/Project Description.

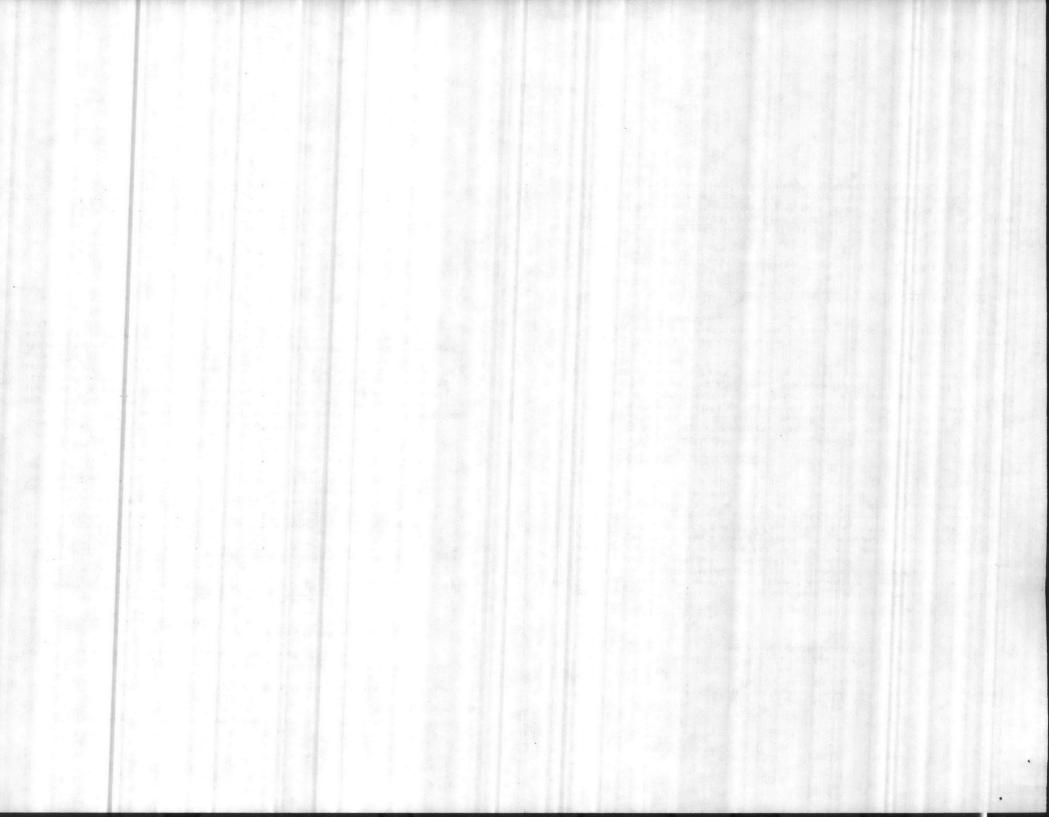
This project will provide two temporary leased prefabricated metal buildings and a separate minor construction project to acquire site preparation for the proposed building sites. Site preparations will include storm drainage; water distribution; sanitary sewer; fire alarm and power distribution; concrete slabs to support the metal buildings; marl access road and storage lot to be enclosed with a security fence. The proposed interim facilities are required to satisfy a critical space shortage in the hangar areas. Permanent military construction projects are programmed to satisfy this shortage in FY 86 with a new hangar and a new ground support equipment facility. The interim facilities will be removed upon completion of the permanent facilities.

2. Consideration of Sites Selected.

The larger of the two buildings will provide badly needed space required for the MAG-29 Ground Support Equipment (GSE) and GSE personnel work and administrative spaces. The site is located near the MAG-29 hangars and will be readily accessible to the hangars (see enclosure (1)). Existing power and utility lines are within relatively short distances which will keep connection costs at a minimum. The site for the GSE facility is an undeveloped wooded area, which will be cleared under a timber harvest sales contract in the near future.

The HML/A-167 site is located between Hangar 515 and Hangar 518 (see enclosure (1)). It will provide additional spaces for maintenance control and storage for the MAG-26 squadron personnel.

- Compliance with Federal, State and Local Environmental Regulations and Guidelines.
- a. Endangered Species. No endangered species exist in either of these project areas.
- b. Clean Water Act. Containment walls will be constructed to retain petroleum spills, that may be generated at the GSE facility. Acid wastes from the battery shop will be removed in accordance with Base Order 11090.1B, Oil Pollution Prevention and Abatement and Oil and Other Mazardoum Substances Spill Contingency Plan. Spills will be reported to the Fire Department.



PRELIMINARY ENVIRONMENTAL ASSESSMENT FOR FIRING POSITION IMPROVEMENT.

- A. Reference. FM 6-50, Field Artillery Cannon Battery, 25 Mar 83
- B. Enclosures.
 - 1. Site map, scale 1:50,000
- Nine Gun Position Sites, not to scale: GP #4, 13, 14, 24, 25, 27, 32, 33, and 36

C. Purpose and Need

Improvement of the artillery firing positions allows for realistic tactical training with the new M198, 155mm howitzer. A larger weapon system than its predecessor, the M101A1, 105mm howitzer, the M198 requires more space for proper employment per the reference. To maximize both firing and non-firing training at Camp Lejeune, the enlargement of current gun positions plays a critical role.

D. Project Description

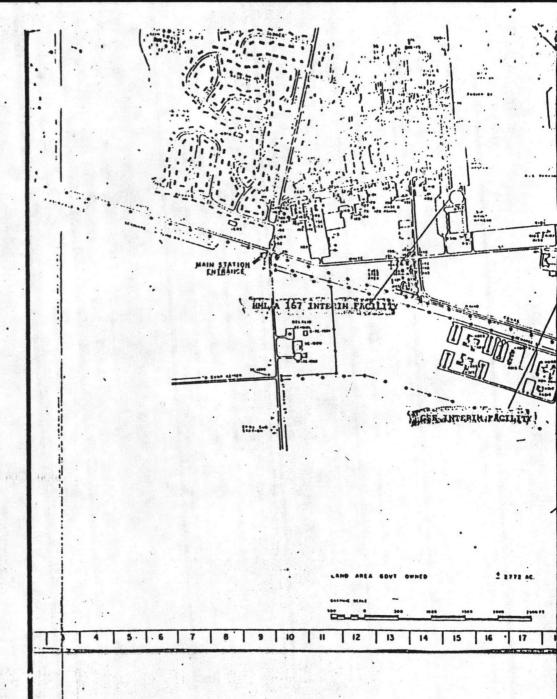
- Enlargement of selected existing firing positions indicated on enclosure (1). The project generally consists of the following:
- a. Harvest of marketable timber along with clearing about
 75 acres in total.
- b. Road improvement at entrances to firing positions #14 and #36.
- The descriptions and site maps as shown on the enclosures indicate those areas to be cleared. These areas were identified during the joint field survey by 10th Marines, Natural Resources and Environmental Affairs Division and Assistant Chief of Staff, Facilities.

E. Site Selection

The positions were selected based on location, current safety regulations, and need for improvement. Most sites require only a few acres to be cleared of mature timber and scrub brush.

F. Noise Pollution

There will not be any change to existing levels due to the continued use of the same number and type of weapons and charges employed at these existing positions.





NINE GUN POSITION SITES Site Maps Attached

Gun Position #4

Gun Position #4 is a very narrow food plot at grid vic 927407 with a direction of fire of 3200m.

The road that leads to gun position from the northwest and from the east needs to be graded and graveled. The area to the northeast of the road has been partially cleared but needs to be cleared entirely so it can become a usable gun line. The area east and west of the existing position is thick with pine and oak trees. All boundaries to be cleared are marked by a red ribbon around the trees.

For the east side, start from the northeast corner of the existing position proceed at an azimuth of 2146m for a distance of 125M then to an azimuth of 3416m for a distance of 80M then to an azimuth of 2637m back to the open area.

For the north side, start in the northeast corner of open field and proceed on an azimuth of 2043m for a distance of 120M then to an azimuth of 5820m for a distance of 95M then to an azimuth of 5420m for a distance of 210M then to an azimuth of 22lm for a distance of 110M then to an azimuth of 5020m for a distance of 120M then to an azimuth of 2790m to open field.

Gun Position #13

Gun Position #13 is an extremely small open area at grid vicinity 963353 with a direction of fire of 4750m.

The access road entering east off of Highway 172 needs repair on several spots. The area that needs to be cleared is north of the existing position and east. It is covered with large oak and pine trees, also lots of small pine and scrub oak in center area. The eastern side is bordered by a small swampy stream. All boundaries of area to be cleared are marked by red tape around the trees.

From the start which is in the northwest corner of the existing plot next to road proceed on an azimuth of 10m for a distance of 260M then to an azimuth of 1122m for a distance of 160M then to an azimuth of 2790m for a distance of 290M then to an azimuth of 3561m for a distance of 80M then to an azimuth of 4800m along road to the open field.

Gun Position #14 -

Gun Position #14 is a small square field at grid vic 969347 with a direction of fire of 4800m.

G.. Compliance with Environmental Requirements

- 1. Endangered Species Act. The impact of this project on the habitat of the endangered species has been determined to be negligible. This statement is based on the determination that the habitat of these species does not occur within the area to be affected by clearing and earthenwork.
- Clean Water Act. No discharge of wastes to surface waters will occur during gun position improvement or subsequently.
 - 3. Clean Air Act. No emissions are anticipated.
- 4. National Historic Preservation Act. No significant cultural resources are located in the positions, with the exception of GP 32. This site has been identified as possibly eligible for listing in the National Register of Historic Places. Sitework cannot be initiated at GP 32 prior to this determination of eligibility. If, during the clearing of the remaining sites, materials are uncovered which appear to be historical in nature, the Natural Resources and Environmental Affairs Division will be contacted.
- 5. North Carolina Sedimentation Pollution Act. Erosion control measures will be included in the project design. Construction management will provide preventive measures to contain all sediment on site. Re-seeding of disturbed areas and vegetative cover on the cleared areas will be accomplished within 30 days of completion of construction. A sediment control plan will be implemented.
- 6. Executive Order 11990, Protection of Wetlands. Disturbance of wetlands will be avoided during clearing and earth moving.

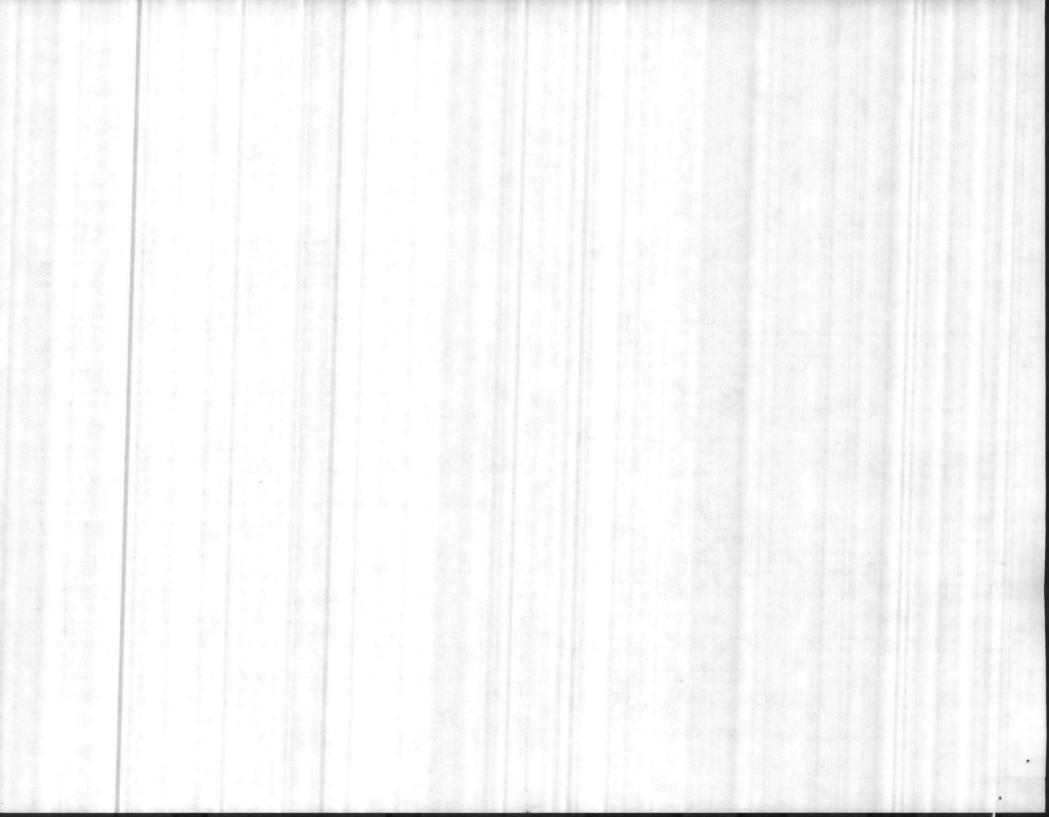
II. Conclusion

The proposed improvements will not result in significant environmental impact provided the measures described herein are followed. Further, the project is not considered controversial, thus, preparation of an Environmental Assessment per MC Order 6280.5 is not required.

Prepared by: W. A. Hamilton
Capt USMC
Regimental Safety Officer
10th Marine Regiment
2d Marine Division

and: Robert E. Alexander Environmental Engineer Marine Corps Dase

2



for a distance of 160M then to an azimuth of 3100m for a distance of 95M. This is the entire west side. From the start proceed at an azimuth 0600m for a distance of 25M to the road then proceed to an azimuth of 1855m for a distance of 110M then an azimuth of 3370m for a distance of 80M then an azimuth of 3020m for a distance of 75M then an azimuth of 5240m to the open area.

Gun Position #27

Gun Position #27 is a small square field at grid vic 907278 with a direction of fire of 0250m for G-10 and 1050m for N-1.

The position is a small plot and the east side is bordered by a hard top road. All clearing will be done to the west. The area is full of large oak trees and pine trees and the area is bordered by swamp on the south side. All boundaries are marked with orange ribbon around the trees.

From the start at the southwest corner of existing position proceed at an azimuth of 3994m for a distance of 75M then an azimuth of 5170m for a distance of 220M then at an azimuth of 6328m for a distance of 105M then an azimuth of 0958 to the road at a distance of 85M then an azimuth of 1760 along the road a distance of 180M then on an azimuth of 3200m along road to open field.

Gun Position #31

Gun Position #31 is rectangular shaped food plot located at grid vic 893268 with a direction of fire of 0360m.

As you turn south off of Sneads Ferry Road at the TLZ Albatross sign the road is in good shape til TLZ Albatross. From there the road heading into position should be graded because of several low spots.

The position is very narrow and needs widening. It cannot be widened to the west because of swamp so it has to be widened completely to the east, which has several oak groves and large pine trees throughout. Very good firm ground through this area. All boundaries are marked with orange ribbon around trees.

Starting from the northeast corner of the existing position proceed at an azimuth of 1500m for a distance of 210M then an azimuth of 3285m for a distance of 230M then an azimuth of 4740m for a distance of 205M to open field.

Gun Position #32

Gun Position #32 is a long rectangular field with a food plot extending from the northeast corner. Grid vic 928300 with direction of fire of 6300m.

The road into the position is good and graveled. The entrance is at TLZ Falcon. The clearing areas are divided into two areas. The west area is to give a lower site to crest and to the north to

The access road leading to GP 14 which is running east off of Highway 172 needs to be graded and graveled on some spots due to water holes. Clearing needs to be done to the north and south. Most trees in both the north and south area are large pine and oak with heavy underbrush. Also there are two large trees in the west central part of the position that needs to be cut. All boundarios, are marked with red ribbon tape around the trees.

For the north side from the start in the northwest corner of the position by the road proceed at an azimuth of 6000m for a distance of 65M then to an azimuth of 5100m for a distance of 115M then to an azimuth of 0250M for a distance of 110M then to an azimuth of 1780m for a distance of 170M then to an azimuth of 2140m for a distance of 85M then to an azimuth of 2700m back to the open field.

For the south side from the start which is on the southeast corner of the position, proceed at an azimuth of 2760m for a distance of 125N then to an azimuth of 4430m for a distance of 135M then to an azimuth of 5990m back to the open field.

Gun Position #24

Gun Position \$24 is a square shaped position located at grid vic \$52283 with a direction of fire of 0830m.

As you turn south off Sneads Ferry road, the dirt road leading to the position is in good shape. There are several spots with soft sand. There is an area between the road and the position that has heavy woods, this has to be cleared. Once on the east side of the road, the entire area marked off needs to be cleared. Most of the trees are large and medium oak and pine trees.

The boundary of the wooded area that needs to be cleared is marked in orange ribbon tape. Starting in the northeast corner of the existing position moving east south east at an azimuth of 2120m for a distance of 265M then to an azimuth of 3840m for a distance of 185M then an azimuth of 5140m for a distance of 85M then proceed on an azimuth of 5420m for a distance of 155M to the entrance of the position.

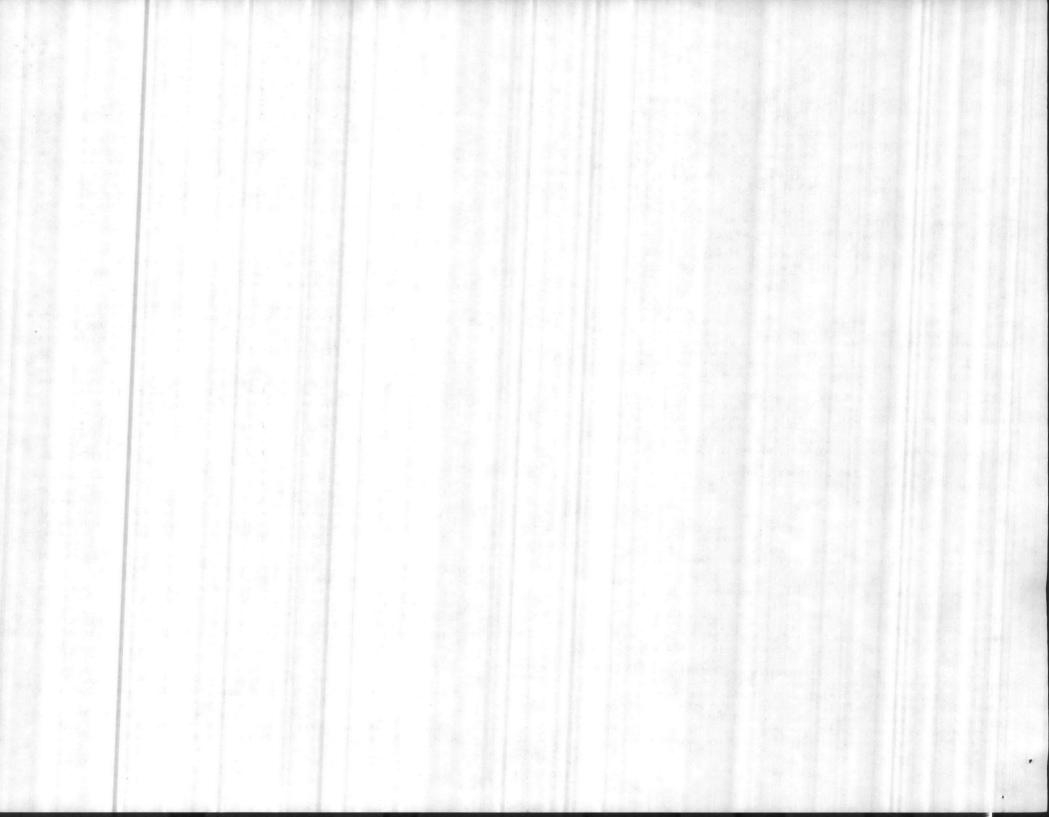
Gun Position #25

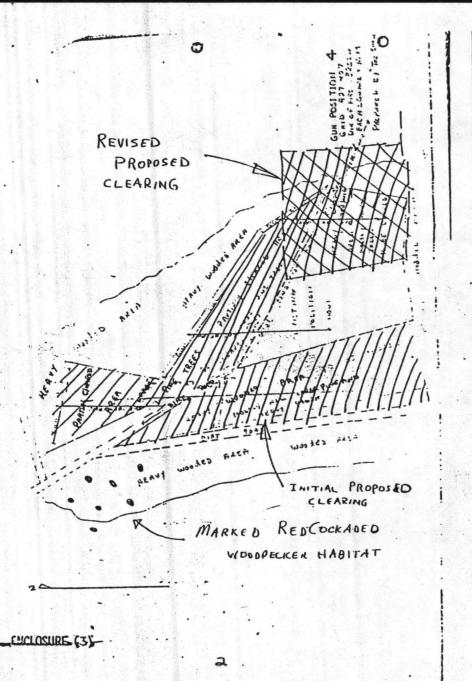
Gun Position #25 is a lazy L (___) shaped gun position located at grid vic 861291 with a direction of fire of 0840m.

As you turn north off of Sneads Ferry Road the position is approximately 150M north. This road needs to be built up because you have to drive through the ditch.

As you look at the position, the east side is a small square and the west is a long thin rectangle. The clearing operation has to be done on the northwest side and the east side. Both sides have large and medium oak and pine trees with heavy underbrush-clearing should go north to the road. All boundaries are marked by orange ribbon tape around the trees.

From the start in the upper northwest corner and proceed at an azimuth of 0400m for a distance of 30M then at an azimuth of 4800m





give more room for the guns. Both areas are covered with large oak and pine trees and heavy underbrush to the west. All boundaries are marked with orange ribbon around the trees.

There are two start points #1 for the north area and #2 for the west. From start #1 southeast corner of food plot proceed at an azimuth of 1110m for a distance of 95M then an azimuth of 6110m for a distance of 130M then an azimuth of 4330m for a distance of 160M to open field. From Start #2 upper northwest corner of food plot, proceed at an azimuth of 3045m for a distance of 55M then an azimuth of 3580m for a distance of 205M then an azimuth of 2225m for a distance of 85M then an azimuth of 1050m to the open field.

Gun Position #33

Gun Position #33 is a small food plot located at grid vic 814304 with a direction of fire of 1150m.

As you turn off of Sneads Ferry Road to the southwest the access road needs some sort of drainage ditch because of standing water. The north part of the position is a small square food plot with a row of trees running through it. This row needs to be removed. Moving southwest of the food plot there needs extensive clearing staying on the west side of the road. At the south end of the position extensive clearing has to be done on the east side of the road. The boundaries are laid out by marking with orange ribbon. All trees showing the boundary are marked with orange ribbons.

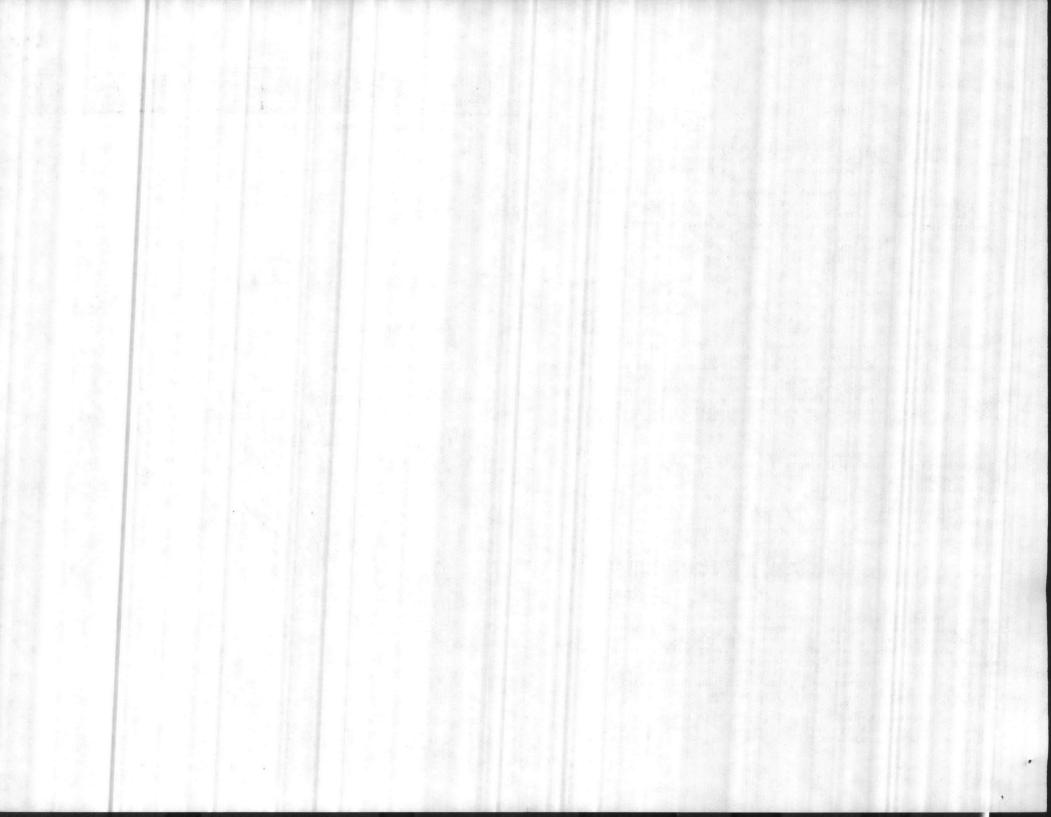
Starting where the position meets the road on the northeast corner of the position proceed on an azimuth of 5476m for a distance of 157M. Then proceed on an azimuth of 4000m for a distance of 420M, then proceed on an azimuth of 2320m for a distance of 230M, then proceed on an azimuth of 0720m for a distance of 70M, then proceed on an azimuth of 6400m for a distance of 185M, then proceed on an azimuth of 1040m for a distance of 235M. Also the tank trail leading to the position needs regrading. Most trees are large pine trees.

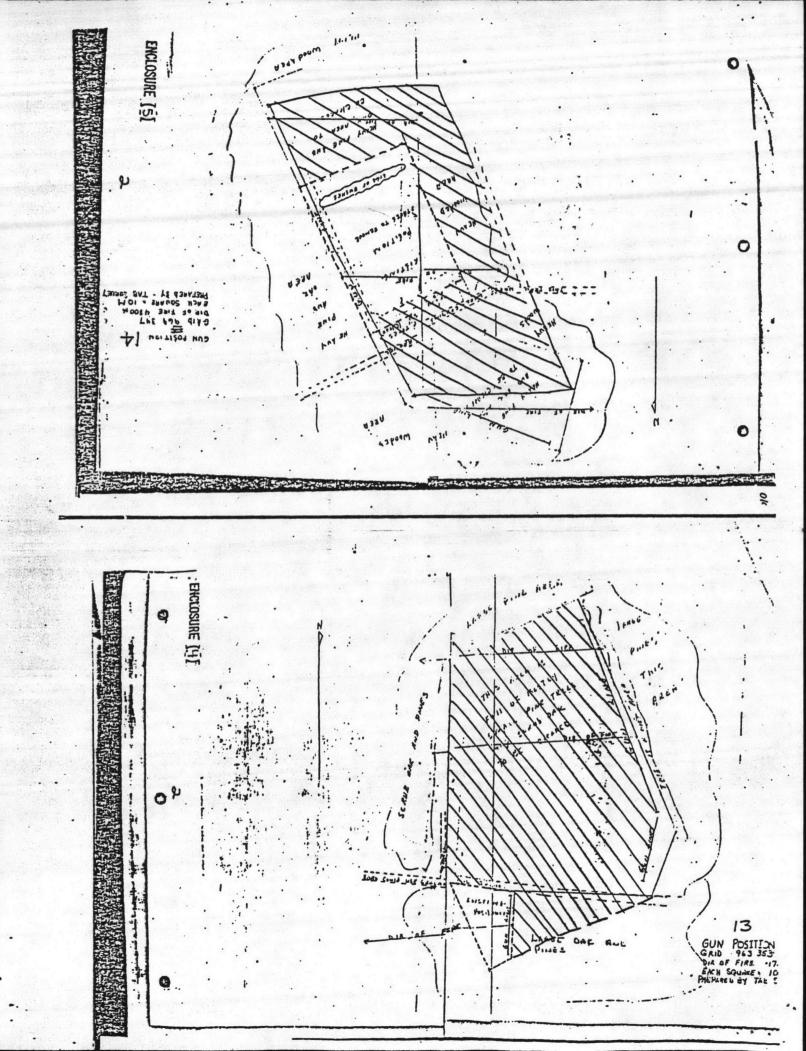
Gun Position #36

Gun Position #36 is a position at grid vic 894398 with a direction of fire of 2700m.

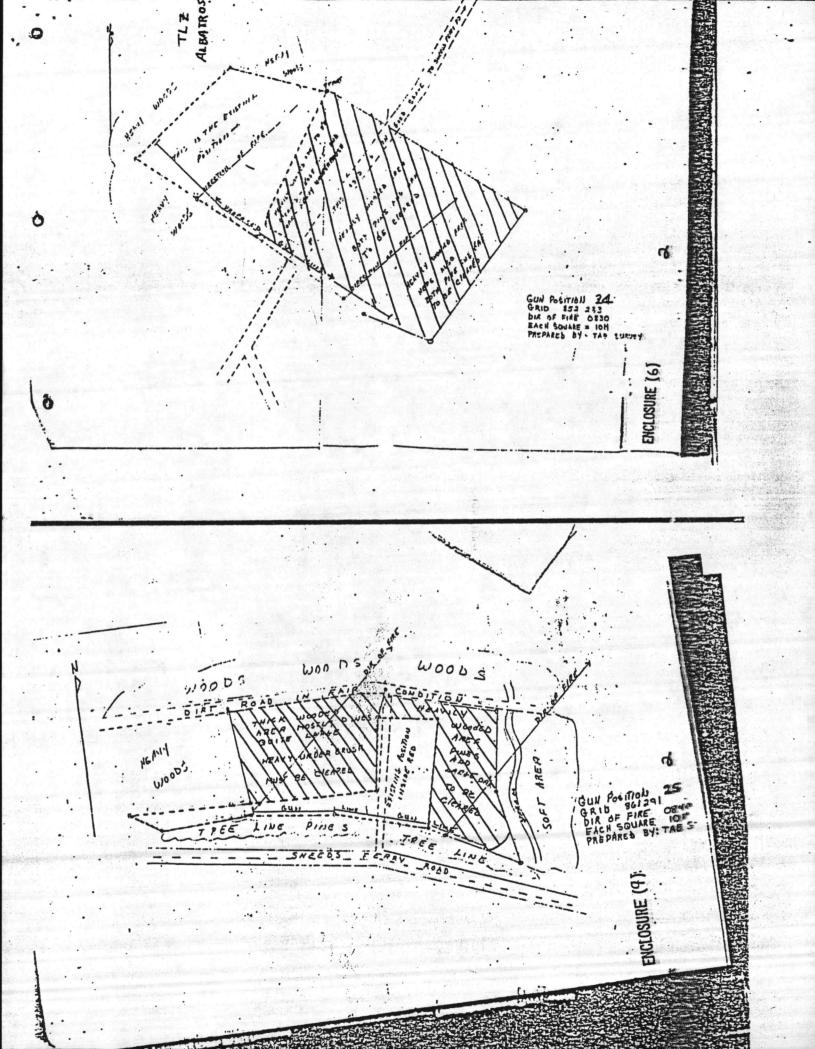
The road entering the position needs repairs badly-probably grading and graveling would help: The north side of the position is very soft and should be prepared to allow 198's to enter. The entire position is covered by small pine trees that should not get in the way. The areas to be cleared is to the east to lower the site to crest. All areas to be cleared are marked by red and orange ribbon around the trees.

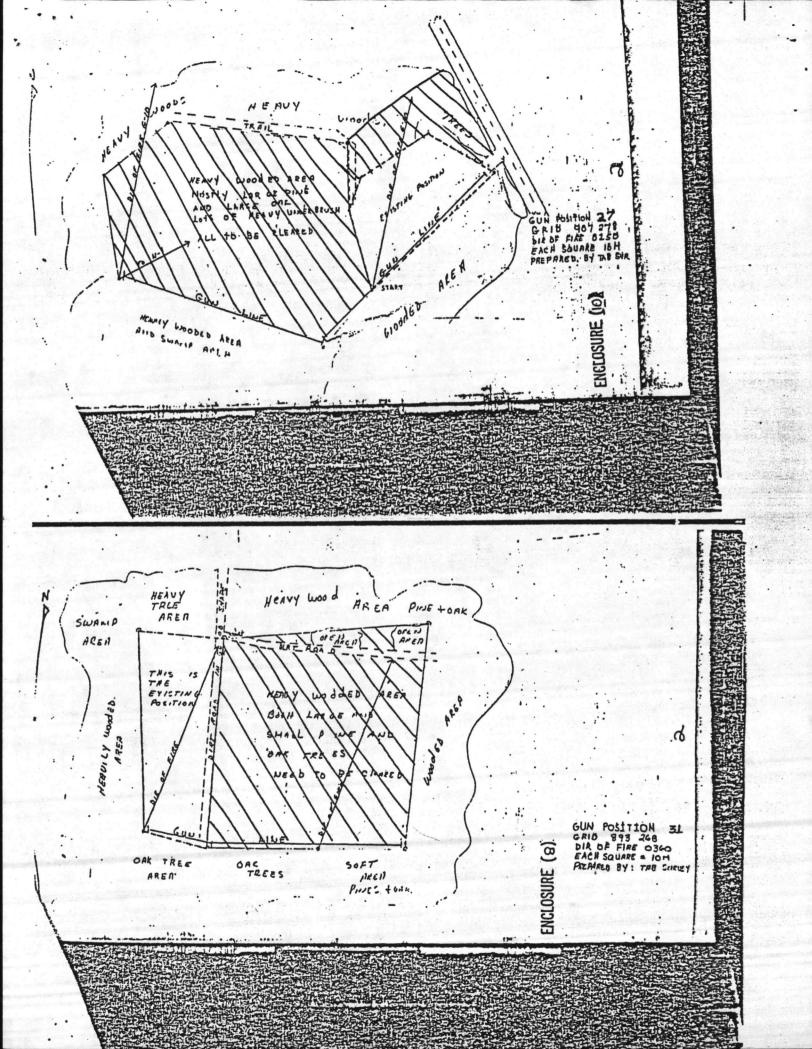
From the start which is in the northeast corner of the position next to road proceed on an azimuth of 2840m for a distance of 220M then to an azimuth of 3970m for a distance of 105M.





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